



# **NMP-1000P**

## **Network Multimedia Player**

User Manual (Version 1.1.0)



©Copyright 2010. QNAP Systems, Inc. All Rights Reserved.

## FOREWORD

Thank you for choosing QNAP products! This user manual provides detailed instructions of using NMP-1000P network multimedia player. Please read carefully and start to enjoy the powerful functions of NMP-1000P!

“NMP-1000P network multimedia player” is hereafter referred to as “NMP-1000P”, or “the player”, or “the server”.

This manual provides the description of all functions of NMP-1000P. The product you purchased may not support certain functions dedicated to specific models.

All features, functionality, and other product specifications are subject to change without prior notice or obligation. Information contained herein is subject to change without notice.

QNAP and the QNAP logo are trademarks of QNAP Systems, Inc. All brands and products names referred to are trademarks of their respective holders.

## DISCLAIMER

In no event shall the liability of QNAP Systems, Inc. (QNAP) exceed the price paid for the product from direct, indirect, special, incidental, or consequential software, or its documentation. QNAP makes no warranty or representation, expressed, implied, or statutory, with respect to its products or the contents or use of this documentation and all accompanying software, and specifically disclaims its quality, performance, merchantability, or fitness for any particular purpose. QNAP reserves the right to revise or update its products, software, or documentation without obligation to notify any individual or entity.

**Note:** Should you return any components of NMP-1000P package for refund or maintenance, make sure they are carefully packed for shipping. Any form of damages due to improper packaging will not be compensated.  
Back up your system periodically to avoid any potential data loss. QNAP disclaims any responsibility of all sorts of data loss or recovery.

## **COPYRIGHT AND TRADEMARK NOTICES**

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC.



Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.



Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,487,535 & other U.S. and worldwide patents issued & pending. DTS and the Symbol are registered trademarks, & DTS 2.0+ Digital Out and the DTS logos are trademarks of DTS, Inc. Product includes software.

© DTS, Inc. All Rights Reserved.



## Regulatory Notice



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Shielded interface cables, if any, must be used in order to comply with the emission limits.



Class B only.



## Table of Contents

<b>TABLE OF CONTENTS .....</b>	<b>5</b>
<b>1. INTRODUCTION.....</b>	<b>9</b>
1.1 PACKAGE CONTENTS.....	9
1.2 BROWSE THE CD-ROM CONTENTS .....	10
1.3 HARDWARE ILLUSTRATION .....	11
1.4 REMOTE CONTROL .....	13
<b>2. INSTALL THE HARDWARE .....</b>	<b>14</b>
2.1 WHAT EQUIPMENT YOU NEED .....	14
2.2 INSTALL THE HARD DISK DRIVE .....	15
2.3 VIDEO & AUDIO OUTPUTS.....	18
2.3.1 Video .....	18
2.3.2 Audio .....	20
<b>3. INITIALIZE THE SYSTEM .....</b>	<b>22</b>
<b>4. ACQUIRE THE DIGITAL CONTENTS FOR PLAYBACK.....</b>	<b>25</b>
4.1 USE NETWORK CONNECTION.....	25
4.1.1 Play from remote PC or NAS .....	25
4.1.2 Play from the local disk .....	31
4.2 OTHER CONNECTIONS.....	33
4.2.1 External disk mode (to PC mode).....	33
4.2.2 External storage host mode (to HDD mode).....	34
<b>5. NMP-1000P SETTINGS MENU.....</b>	<b>35</b>
5.1 VIDEO AND AUDIO .....	36
5.1.1 Video output .....	37
5.1.2 Audio output .....	38
5.1.3 Display settings .....	40
5.1.4 Support 24p.....	40
5.2 SYSTEM SETTINGS .....	41
5.2.1 Language .....	42
5.2.2 Screen saver .....	43
5.2.3 Sleep timer .....	44

5.2.4	Date/time .....	45
5.2.5	Power button .....	46
5.2.6	System update.....	47
5.2.7	Parental Control .....	49
5.2.8	Font settings.....	52
5.2.9	Disclaimer .....	52
5.3	NETWORK.....	53
5.3.1	Wired network .....	54
5.3.2	Wireless network .....	55
5.3.3	Network service settings .....	56
5.4	REMOTE DISK.....	57
5.4.1	Auto search of QNAP NAS .....	58
5.4.2	Auto search for remote disk setup.....	59
5.4.3	Manual remote disk setup .....	61
5.5	PREFERENCES .....	62
5.5.1	Play mode.....	63
5.5.2	File categorization .....	64
5.5.3	Home menu style .....	67
5.5.4	Video menu .....	68
5.5.5	Music menu.....	69
5.5.6	Photo view.....	70
5.5.7	Video view .....	70
5.5.8	Slideshow timer.....	72
5.5.9	Subtitle .....	73
5.5.10	Blu-ray navigation .....	75
5.5.11	Turn off blue light LED .....	76
<b>6.</b>	<b>MEDIA PLAYBACK OF NMP-1000P .....</b>	<b>77</b>
6.1	STANDARD MEDIA PLAYBACK OPTIONS .....	77
6.1.1	Delete .....	77
6.1.2	Play mode.....	77
6.1.3	Information .....	77
6.1.4	Lock/ Unlock.....	77
6.1.5	Add to favorites and rating for video and music files .....	77
6.1.6	Seeking feature for video and music playback.....	78
6.2	PLAY VIDEO FILES.....	79
6.2.1	Subtitle settings.....	81
6.2.2	Playback settings .....	81
6.2.3	Get the brief introduction .....	82







6.3	PLAY AUDIO FILES .....	84
6.4	PLAY IMAGE FILES .....	85
6.5	PLAY ONLINE MEDIA CONTENTS .....	86
6.5.1	Apple movie trailers .....	86
6.5.2	CBS/CNN.....	88
6.5.3	SHOUTcast.....	89
6.5.4	Internet radio site .....	90
6.5.5	Flickr .....	91
6.5.6	Picasa.....	94
6.5.7	UPnP.....	96
6.6	WEATHER.....	97
<b>7.</b>	<b>BITTORRENT DOWNLOAD .....</b>	<b>98</b>
7.1	FINISH/ RUN/ PAUSE LISTS .....	98
7.2	ADD NEW BT TASK .....	98
7.3	QGET DOWNLOAD SOFTWARE .....	99
<b>8.</b>	<b>EXTRA FEATURES IN DIFFERENT MEDIA MODES.....</b>	<b>101</b>
8.1	DVD PLAYBACK.....	101
8.2	PAGE UP/ DOWN IN FILE LIST BROWSING.....	101
8.3	FOLDER/FILE COPY, CUT, DELETION, AND RENAME .....	102
8.4	NOW PLAYING.....	103
<b>9.</b>	<b>NAS MODE .....</b>	<b>104</b>
9.1	QUICK CONFIGURATION .....	105
9.2	SYSTEM SETTINGS .....	109
9.2.1	Server Name.....	109
9.2.2	Date & Time .....	109
9.2.3	Filename Encoding .....	110
9.2.4	View System Settings .....	110
9.3	NETWORK SETTINGS .....	111
9.3.1	TCP/ IP Configuration .....	111
9.3.2	Microsoft Networking .....	111
9.3.3	Apple Networking .....	112
9.3.4	NFS Service .....	112
9.3.5	Web File Manager .....	112
9.3.6	FTP Service .....	113
9.3.7	Download Station.....	114
9.3.8	DDNS Service .....	120

9.3.9	System Port Management.....	120
9.3.10	View Network Settings.....	121
9.4	DEVICE CONFIGURATION .....	123
9.4.1	Internal Disk .....	123
9.4.2	External Disk.....	123
9.5	USER MANAGEMENT .....	124
9.5.1	Users.....	124
9.5.2	User Groups.....	126
9.6	NETWORK SHARE MANAGEMENT.....	127
9.6.1	Create .....	127
9.6.2	Property.....	129
9.6.3	Access Control .....	130
9.6.4	Delete .....	131
9.6.5	NFS Access Control.....	132
9.7	SYSTEM TOOLS .....	133
9.7.1	Restart/ Shutdown .....	133
9.7.2	Hardware Settings.....	133
9.7.3	System Update .....	134
9.7.4	Back up/ Restore Settings .....	136
9.7.5	Reset to Factory Defaults .....	137
9.7.6	Remote Login (Telnet Connection) .....	137
9.8	SYSTEM LOGS .....	138
9.8.1	System Event Logs.....	138
9.8.2	Playback Event Logs .....	139
9.8.3	System Information.....	140
<b>10.</b>	<b>WEB FILE MANAGER.....</b>	<b>141</b>
<b>11.</b>	<b>OTHER SOFTWARE UTILITIES .....</b>	<b>144</b>
11.1	QNAP FINDER .....	144
11.2	NETBAK REPLICATOR .....	147
<b>12.</b>	<b>SYSTEM MAINTENANCE .....</b>	<b>162</b>
12.1	RECOVERY PROCEDURE .....	162
12.2	HARDWARE RESET.....	164
	<b>TECHNICAL SUPPORT.....</b>	<b>165</b>
	<b>GNU GENERAL PUBLIC LICENSE.....</b>	<b>166</b>

# 1. Introduction

## 1.1 Package Contents

NMP-1000P package contains the following items. If anything is missing, please contact your distributor or reseller.

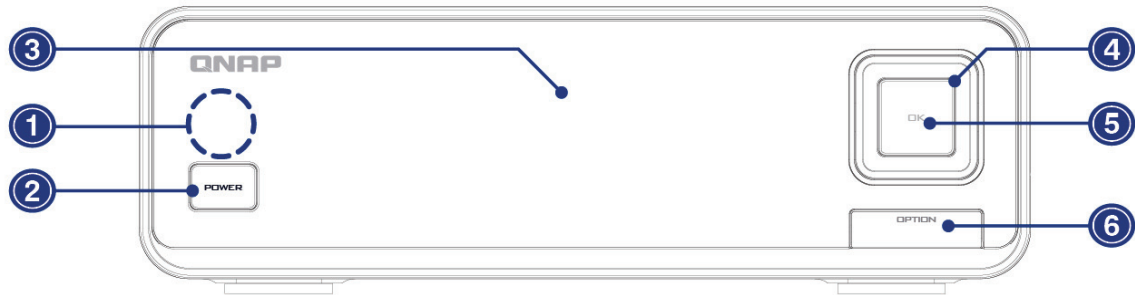
NMP-1000P 	Power cord 	Adaptor 
HDMI cable 	AV cable 	USB cable 
Ethernet cable 	Screw pack 	Quick Installation Guide 
CD-ROM 	Remote control 	2 x Alkaline AAA battery 

## 1.2 Browse the CD-ROM Contents

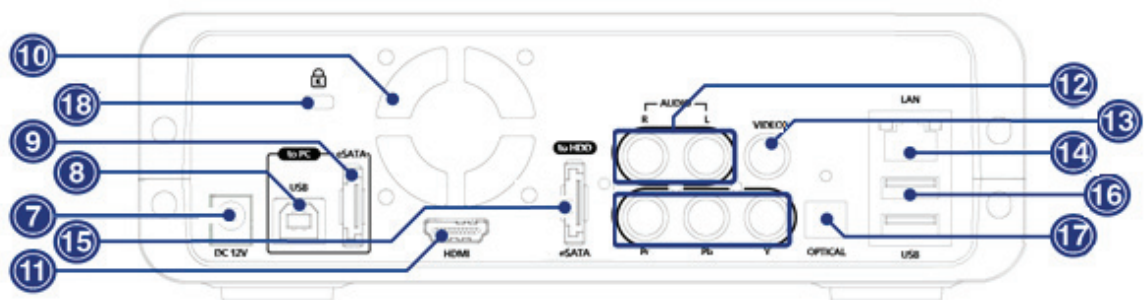
The NMP-1000P CD-ROM contains documentation including quick installation guide (QIG), user manual, and application notes. You can also download the software utilities QNAP Finder, NetBak Replicator, and QGet (see Sections 7.3 and 11 for details).



### 1.3 Hardware Illustration



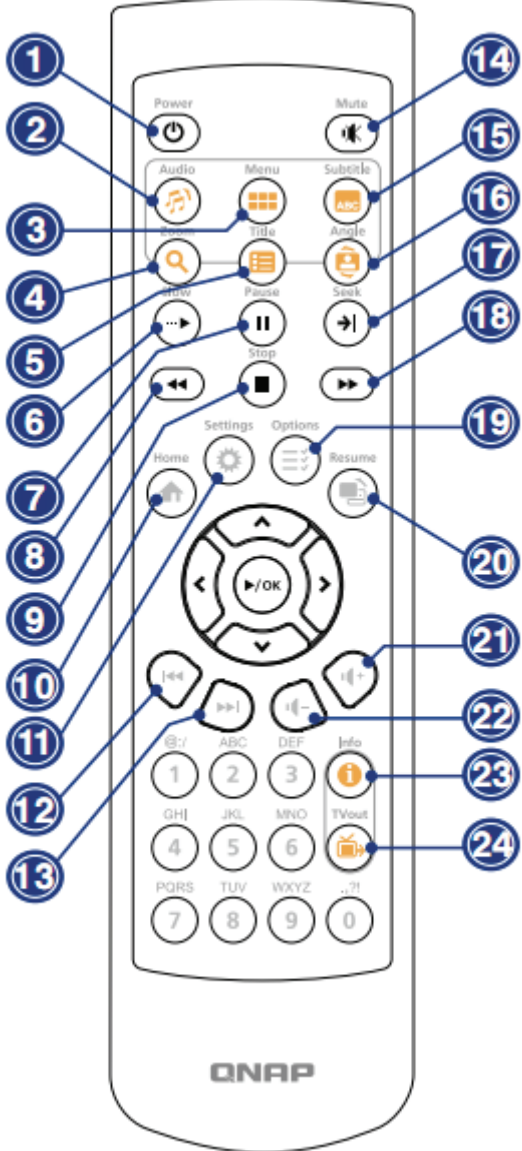
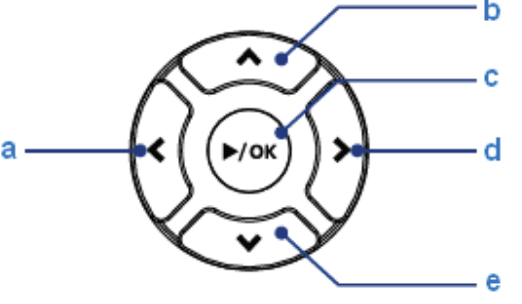
1.	IR Receiver
2.	Power Button
3.	VFD Display
4.	Direction Buttons
5.	OK/ Play Button
6.	Option Button



7.	DC IN
8.	USB Device Port
9.	eSATA Device Port
10.	Fan
11.	HDMI
12.	Analog Stereo Out
13.	Composite Video
14.	LAN
15.	eSATA Host Port
16.	USB Host Port
17.	S/PDIF Optical
18.	K-Lock Security Slot



## 1.4 Remote Control

 <p>The diagram shows a QNAP remote control with 24 numbered callouts. The buttons are arranged as follows: 1. Power (top left), 2. Audio (top left), 3. DVD Menu (top left), 4. Zoom (top left), 5. DVD Title (top left), 6. Slow (top left), 7. Pause (top left), 8. Rewind (top left), 9. Stop (top left), 10. Home (top left), 11. Settings (top left), 12. Previous (top left), 13. Next (top left), 14. Mute (top right), 15. Subtitle (top right), 16. Angle (rotate photo) (top right), 17. Seek (top right), 18. Fast forward (top right), 19. Options (top right), 20. Resume (to playing screen) (top right), 21. Volume up (middle right), 22. Volume down (middle right), 23. Info (bottom right), 24. TV out (bottom right). The central navigation pad has arrows for up, down, left, and right, and a central button labeled '▶/OK'.</p>	<ol style="list-style-type: none"> <li>1. Power</li> <li>2. Audio</li> <li>3. DVD Menu</li> <li>4. Zoom</li> <li>5. DVD Title</li> <li>6. Slow</li> <li>7. Pause</li> <li>8. Rewind</li> <li>9. Stop</li> <li>10. Home</li> <li>11. Settings</li> <li>12. Previous</li> <li>13. Next</li> <li>14. Mute</li> <li>15. Subtitle</li> <li>16. Angle (rotate photo)</li> <li>17. Seek</li> <li>18. Fast forward</li> <li>19. Options</li> <li>20. Resume (to playing screen)</li> <li>21. Volume up</li> <li>22. Volume down</li> <li>23. Info</li> <li>24. TV out</li> </ol>
 <p>The diagram shows a close-up of the central navigation pad. It has a circular design with five main buttons: 'a' (left arrow), 'b' (up arrow), 'c' (▶/OK), 'd' (right arrow), and 'e' (down arrow).</p>	<ol style="list-style-type: none"> <li>a. Previous menu</li> <li>b. Move up</li> <li>c. Play/ OK</li> <li>d. Next menu</li> <li>e. Move down</li> </ol>

## **2. Install the Hardware**

### **2.1 What Equipment You Need**

Before you start to install NMP-1000P, you may need the following:

- A hard disk drive (to be installed in NMP-1000P)
- An LCD TV panel (full HD 1080p is recommended)
- An audio amplifier (optional)
- A wired network connectivity with broadband Internet connection (optional)\*
- Computer (Windows XP, Vista, Mac OS X, or Linux)

\*NMP-1000P can be connected to the network with WEP/WPA-PSK encryption through USB wireless adaptor (802.11b/g/n) without physical network cables.

For HD video playback from the network, it is recommended to use wired connection.

## 2.2 Install the Hard Disk Drive

This product works with 3.5-inch SATA hard disk drives from major hard disk brands. For the HDD compatibility list, please visit <http://www.qnap.com/>.

**Note:** QNAP disclaims any responsibility for product damage/ malfunction or data loss/ recovery due to misuse or improper installation of hard disks in any occasions for any reasons.

Follow the instructions below to install a hard drive (optional purchase) on NMP-1000P.

1. Open the lid.



2. Lift up the disk tray and pull it out gently.



3. Install a hard drive on the disk tray and lock it with four screws.



4. Insert the disk tray to the multimedia player.



5. Fasten the screw to lock the disk tray.



6. Cover the lid. A click sound will be heard when the cover is closed correctly.



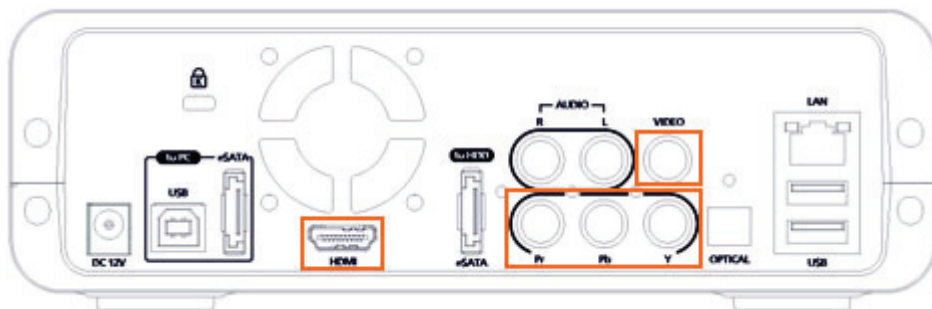
7. Connect the multimedia player to the power supply.



## 2.3 Video & Audio Outputs

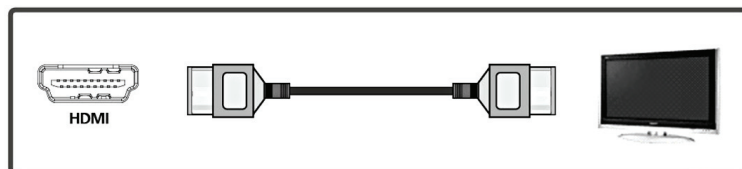
NMP-1000P network multimedia player is designed to play music, photos, and videos on the TV and/or the audio system. Connect the correct video and audio outputs from NMP-1000P to the TV and/ or the audio amplifier.

### 2.3.1 Video

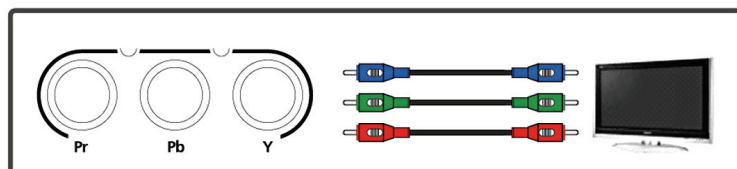


Connect NMP-1000P to the TV by one of the following methods.

- a. HDMI (TV/ amplifier)\*: Connect NMP-1000P to the amplifier (if available) or to the TV by the HDMI cable.



- b. Component: Connect NMP-1000P to the TV by the Component cable (not included in the package). Additional audio cables are required.

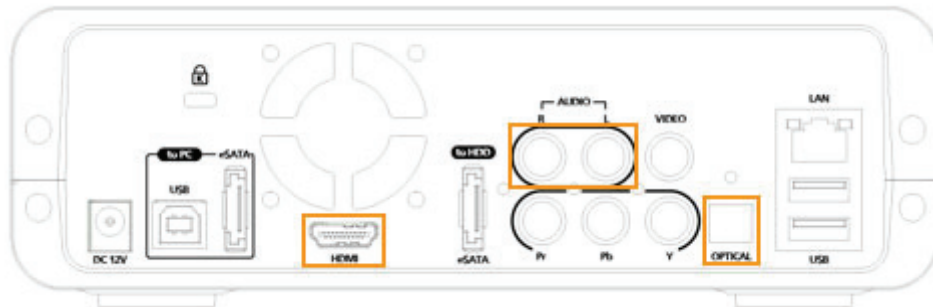


- c. Composite: Connect NMP-1000P to your TV by the Composite video cable (yellow).



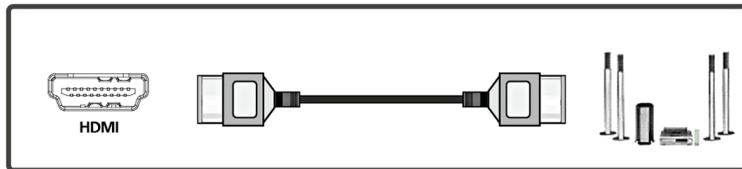
\* The video and audio signals are carried through the same HDMI cable. No additional audio cable is required if you choose to use the HDMI interface.

### 2.3.2 Audio



Connect NMP-1000P to the audio device by one of the following methods.

- a. HDMI (Amplifier)\*: Connect NMP-1000P to the amplifier (if available) by the HDMI cable.



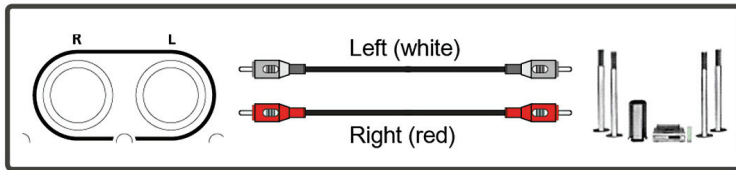
- b. S/PDIF (optical): Connect NMP-1000P to the amplifier by the S/PDIF optical cables (not included in the package).



**Note:** If no sound is audible after connecting the optical cable, please go to the Audio output setting of NMP-1000P and change the S/PDIF configuration.



- c. Composite (audio): Connect NMP-1000P to the analog output of the audio device, e.g. amplifier or speaker by the Composite audio cables (red and white).



\* The video and audio signals are carried through the same HDMI cable if you choose to use the HDMI interface.

### 3. Initialize the System

Make sure a new hard disk drive is installed on NMP-1000P before you start to initialize the system.

1. Place the two Alkaline AAA batteries in NMP-1000P remote control.



2. Use the remote control to turn on NMP-1000P.



3. Select the correct signal input on your TV. (Make sure the TV input matches the video and audio input you have connected NMP-1000P to your TV or amplifier.)

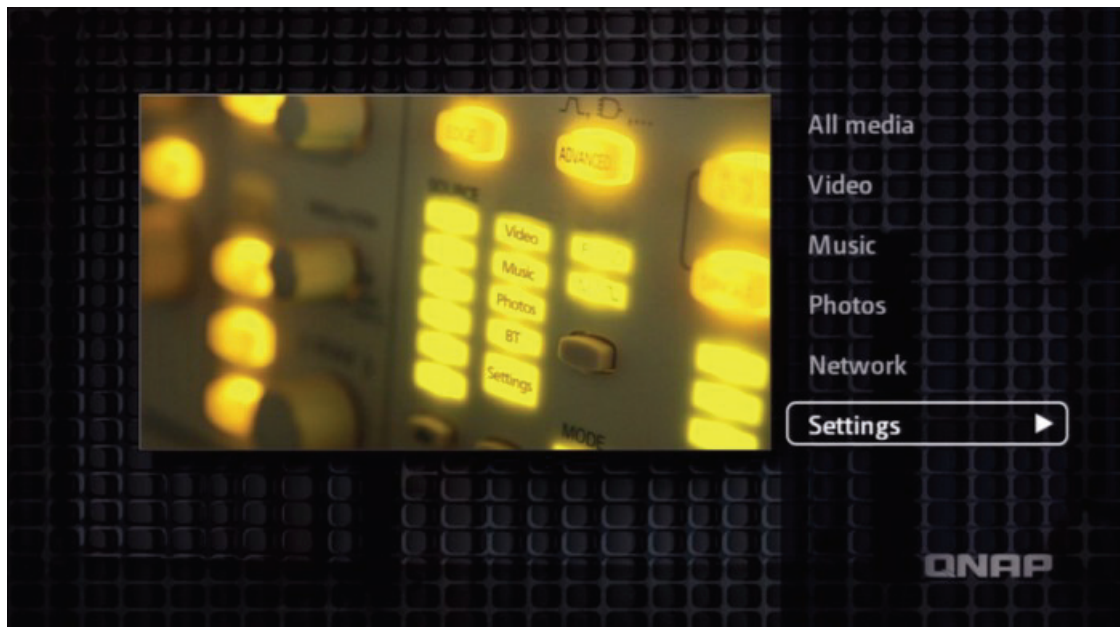


**Note:** If you see a black screen on your TV, press the “TV out” key on the remote control of NMP-1000P. The resolution switches to 480i, 480p, 576i, 576p. Wait until you see the correct signal. The resolution can be configured manually later.



4. Follow the on-screen instructions to format the system\*.  
\*If the existing file system on the installed HDD is not recognizable by the system, you will be prompted to format the HDD.

After the hard drive is formatted, the home menu is shown. Go to “Settings”. Select the language and configure audio out, video out and other settings.



## 4. Acquire the Digital Contents for Playback

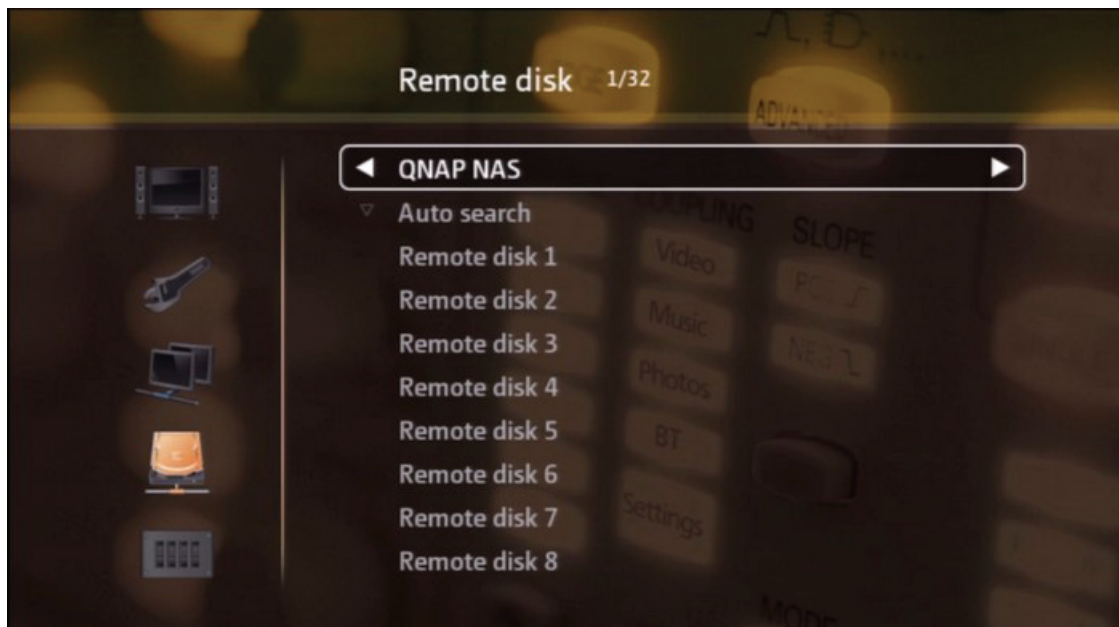
You can use NMP-1000P to play the digital contents on the local hard drive (optional purchase) or from the local network. Select one of the following ways to acquire the digital contents for playback.

### 4.1 Use Network Connection

#### 4.1.1 Play from remote PC or NAS

1. Connect NMP-1000P to your home network.  
NMP-1000P can be connected to the network with WEP/WPA-PSK encryption through USB wireless adaptor (802.11b/g/n) without physical network cables.  
For HD video playback from the network, it is recommended to use wired connection.  
\* For the USB wireless adaptor compatibility list, please visit <http://www.qnap.com/>.
2. NMP-1000P acquires an IP by DHCP automatically.  
If you need to configure a static IP, use the remote control to enter "Settings" > "Network" and enter the settings for "Static IP". See Section 5.3.1 for more information.

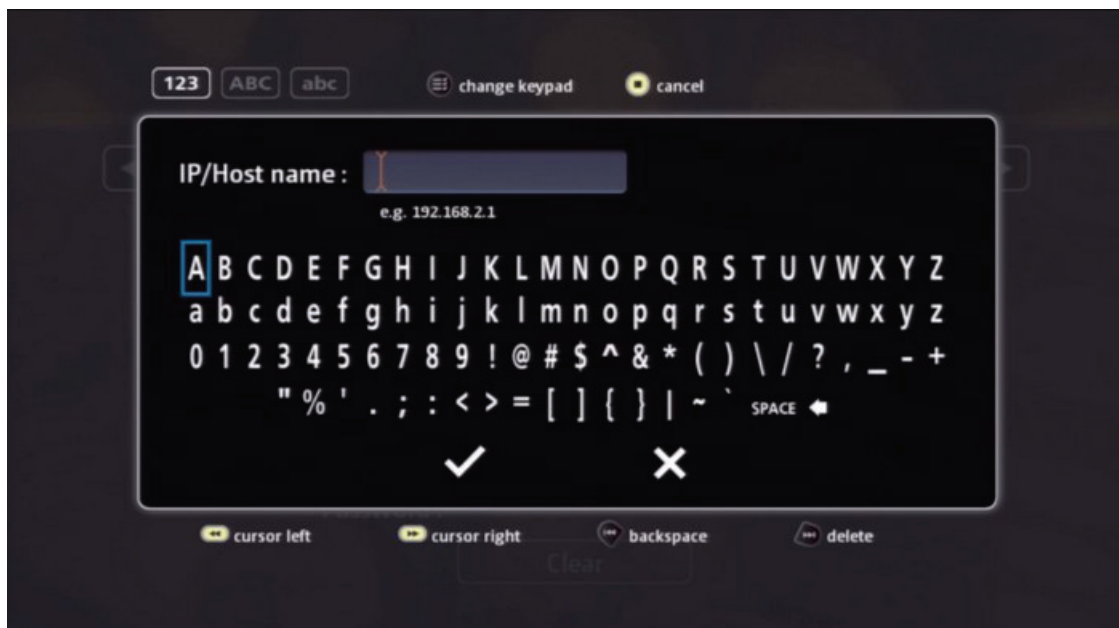
3. Go to “Settings” > “Remote disk”. You can select “QNAP NAS” to search for all available QNAP NAS on the local network or “Auto search” to search for all the PC or NAS on the local network. For further information, see Section 5.4.



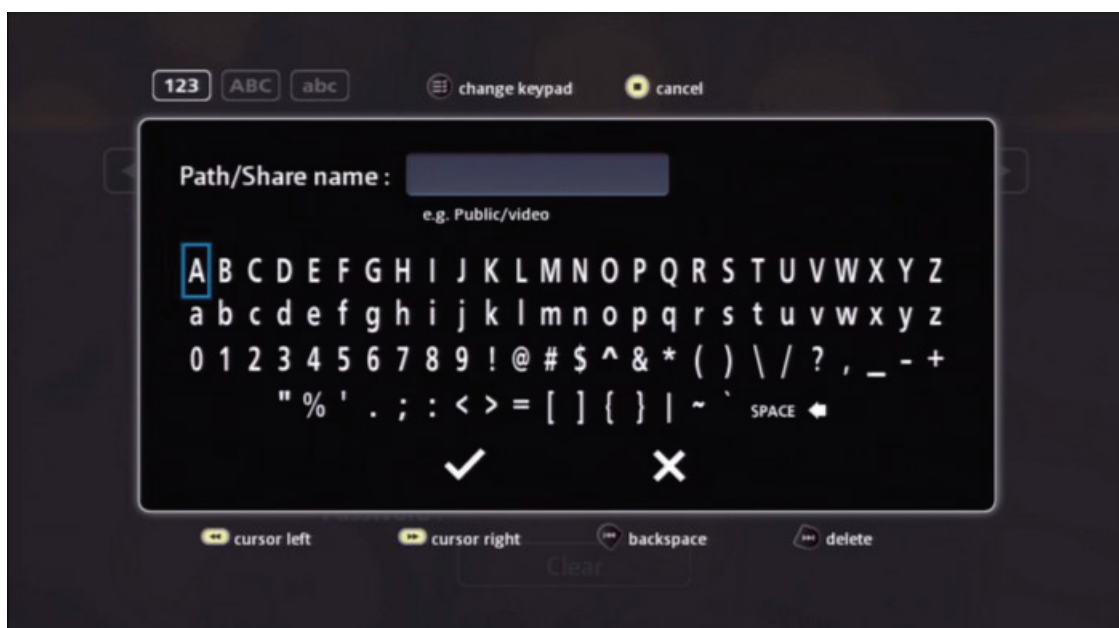
4. Select a remote disk number (1–32) and choose the network connection type (Microsoft Networking for Windows PCs or NFS for Linux PCs). For more information, see Section 5.4.



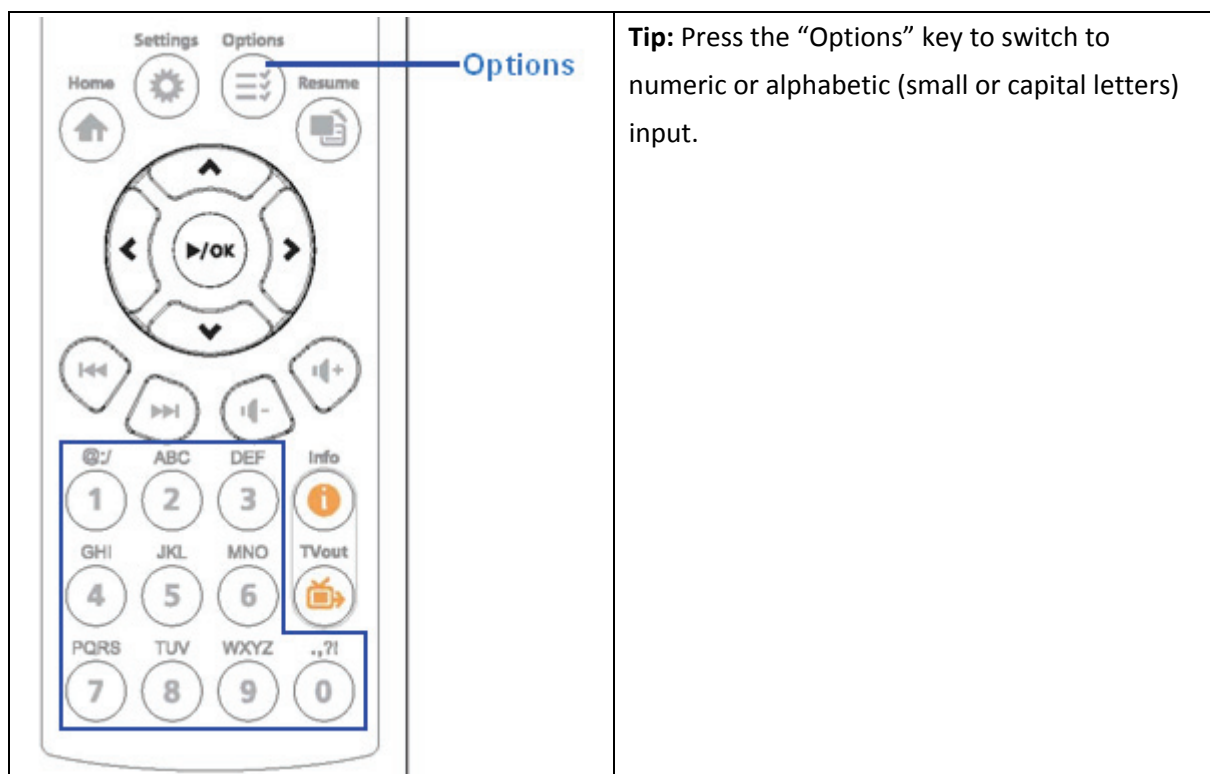
5. Enter the IP address/ host name of the PC or NAS.



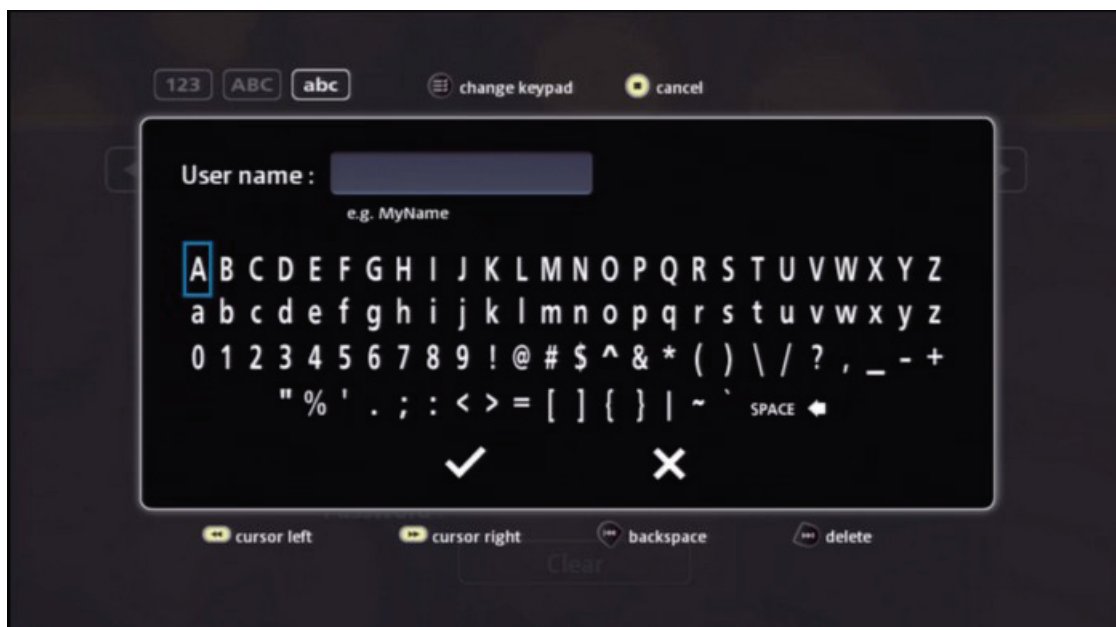
6. Enter the network share name or path.





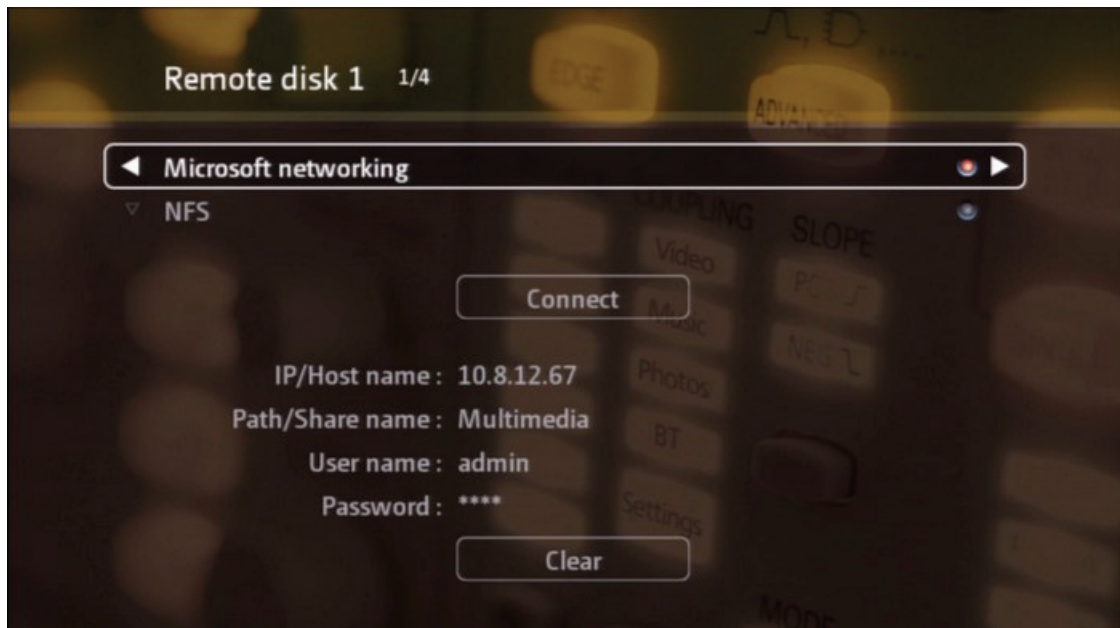


7. Enter the login name and the password. If no user name and password are required, you can leave the field blank; the default guest account will be used.

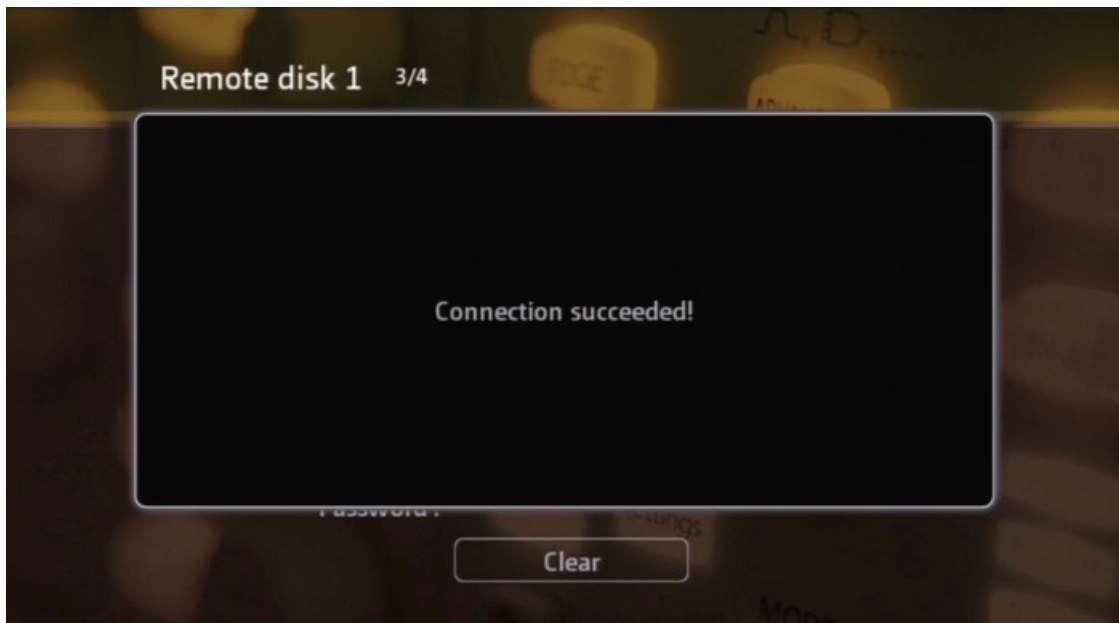




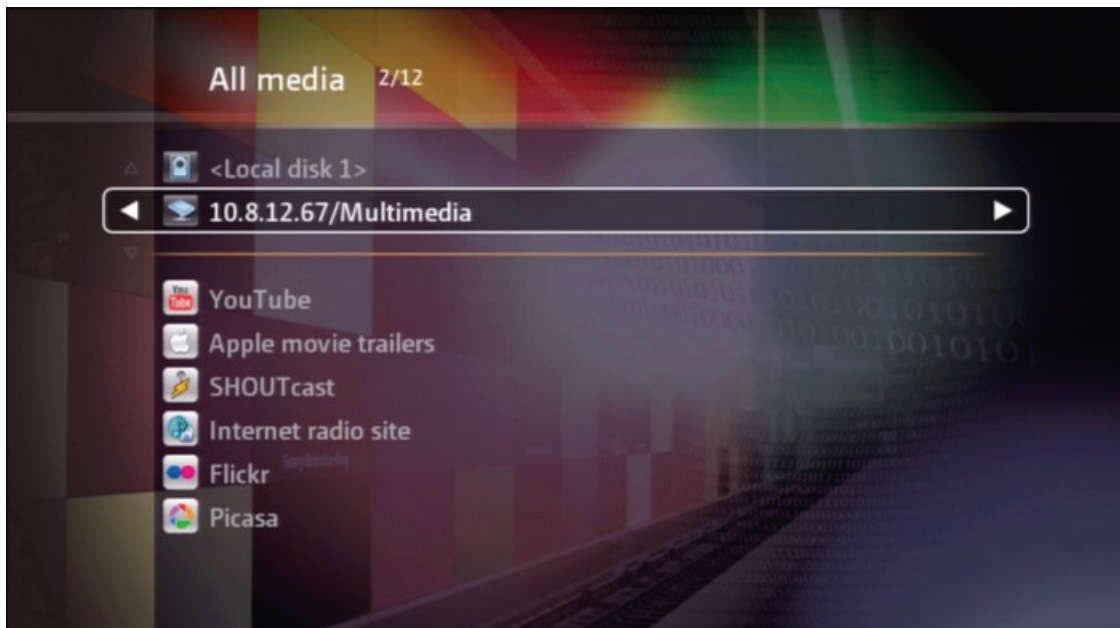
8. Select “Connect” and press “OK” to connect to the network share.





9. If the information entered is correct and your network connection is working properly, you will see the “Connection succeeded!” message. If you see the “Connection Failed!” message, please verify the information entered and make sure your network connection is working properly.



10. Play the digital contents from the network shares.

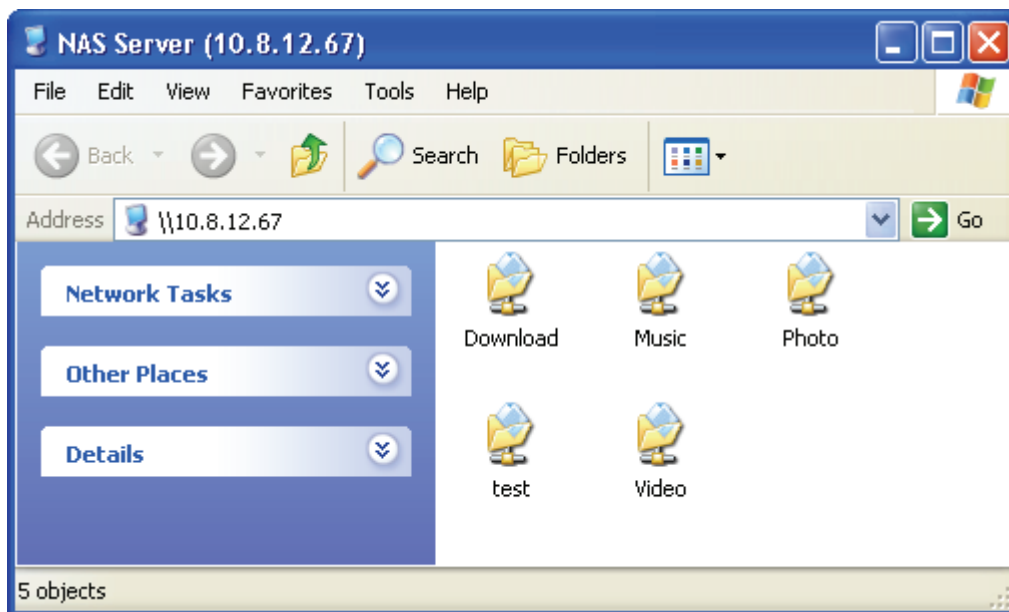


The  icon indicates that the remote disk is currently connected. If you see the  icon in front of the remote disk name, when you press the right directional key to browse the contents, the system will automatically connect the remote disk for you if the remote disk is setup properly.

#### 4.1.2 Play from the local disk

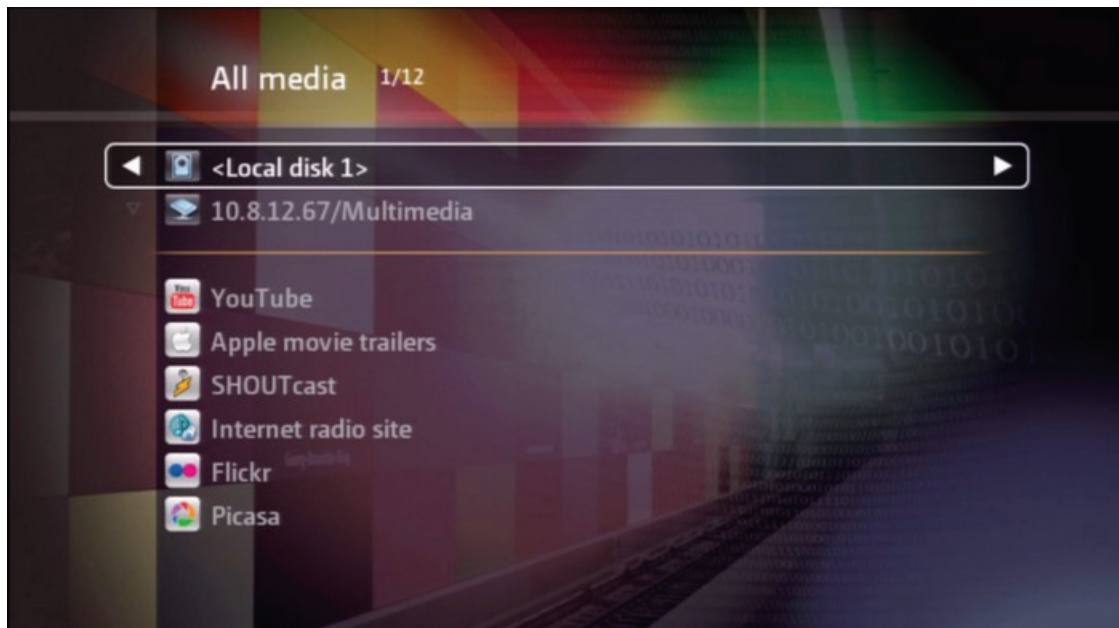
**Note:** The local hard drive is not included in the standard package and needs to be purchased separately. Make sure a hard drive is installed on the server before performing the following steps.

- a. Enter your NMP-1000P IP address as \\IP.
- b. Login the network shares on NMP-1000P by samba (Windows or Mac) or NFS (Linux).  
(Default login name & password: admin/ admin)



- c. Copy the digital contents to the share folders of NMP-1000P. To create more share folders, see Section 9.6.1.

- d. Play the digital contents from the local disk.



## **4.2 Other Connections**

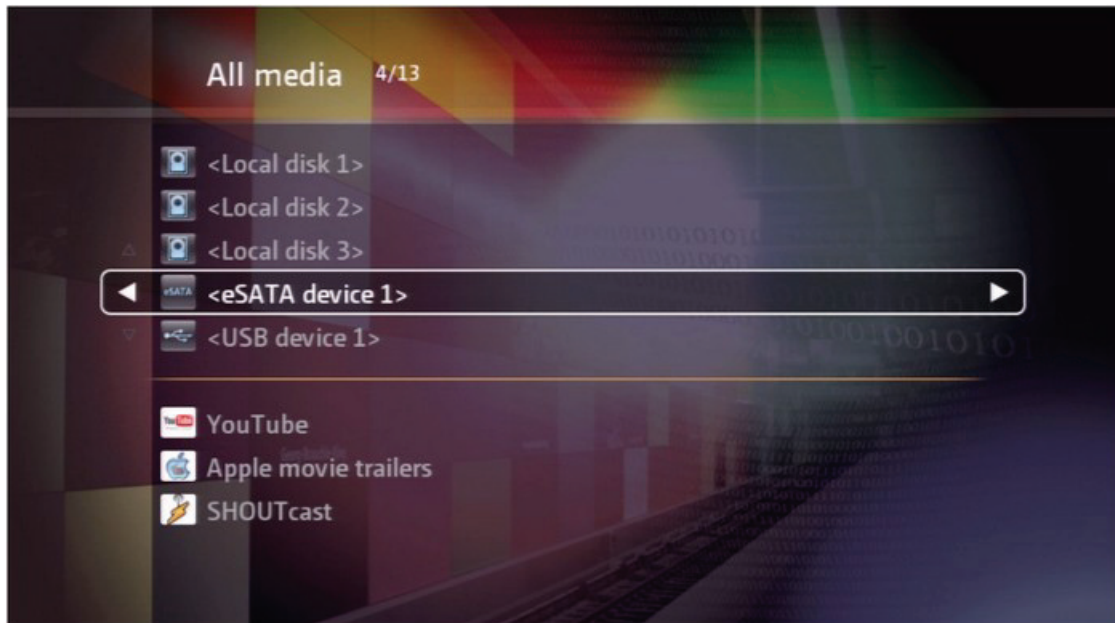
If you choose not to use the network connection, you can acquire the digital contents by the following ways.

### **4.2.1 External disk mode (to PC mode)**

- a. Connect NMP-1000P to your PC by the eSATA or USB interface. The VFD shows “eSATA ON” or “USB ON” on the front display.
- b. The PC recognizes NMP-1000P as an eSATA/USB mass storage device. Copy the digital contents to NMP-1000P.
- c. Play the digital contents from NMP-1000P.

#### 4.2.2 External storage host mode (to HDD mode)

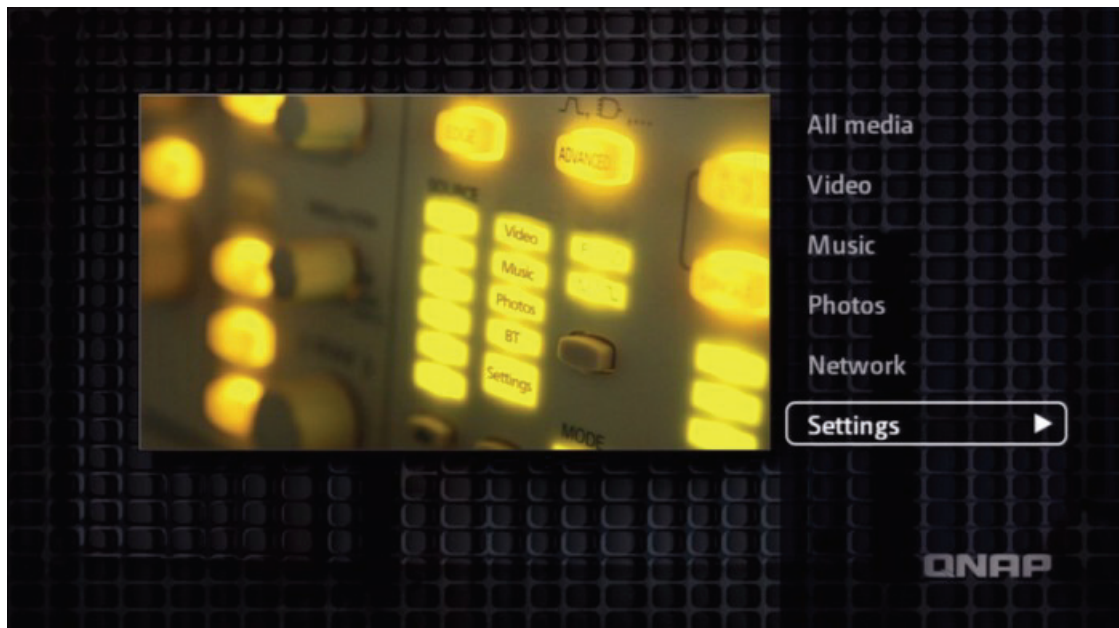
- a. Connect an external storage device (eSATA or USB device) to NMP-1000P by USB host or eSATA host interface.
- b. NMP-1000P detects the external disk automatically.



- c. Play the contents from the external storage device.
- d. If you have a hard drive installed on NMP-1000P, you can copy the media contents from the external storage into your local disk. See Section 8.3 for more information.

## 5. NMP-1000P Settings Menu

On NMP-1000P settings menu, you can simply use the “Move up”/ “Move down” keys to select the settings you would like to change. Use the “Previous menu”/ “Next menu” keys to navigate and choose the option within the settings menu.



## 5.1 Video and Audio

You can configure Video, Audio and Display settings with respect to your home entertainment system.





### 5.1.1 Video output

The Video output section enables you to change your TV display settings.

- TV standard: Select NTSC or PAL.
- TV out: Select the type of video output you would like to use.
- TV format: Select the display resolution your TV uses.
- TV aspect ratio: Select the screen aspect ratio of your TV.

To save the changes, press “Apply”.



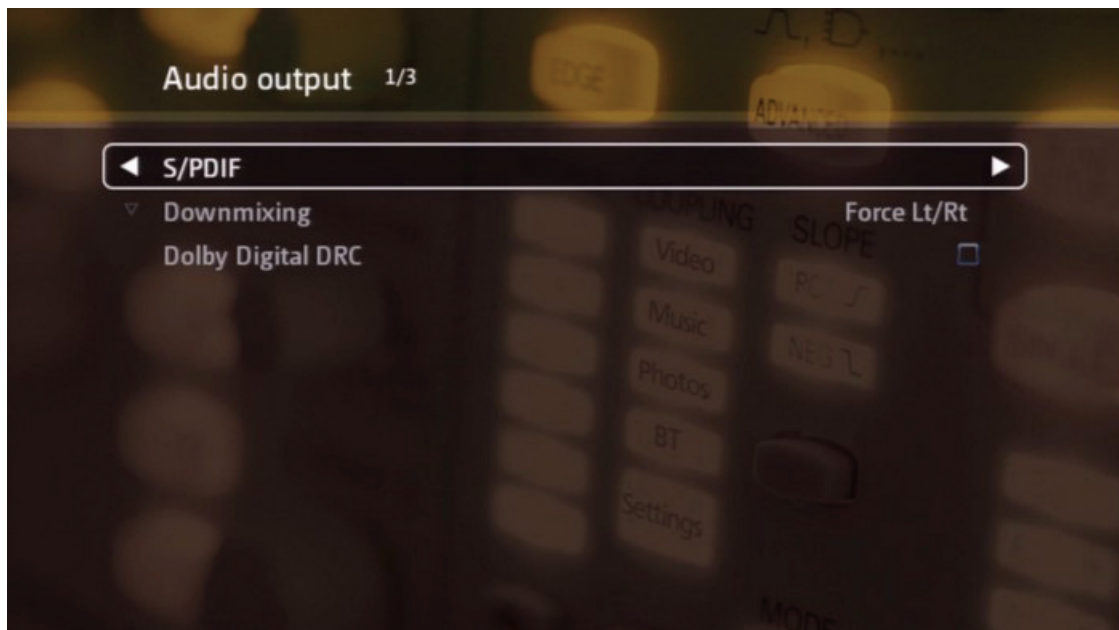
You will be asked to confirm the changes if the new settings are appropriate for your TV. If you do not confirm the changes within 15 seconds, the changes will be cancelled and the previous settings will be restored.

If you see a black screen after changing the video output settings, your new settings are not appropriate for your TV. Wait for 15 seconds, the video settings will be automatically restored to the previous setting and you will be able to see the display again.

When HDMI video output is selected, the video output is also available through component, s-video, and composite concurrently.

### 5.1.2 Audio output

NMP-1000P sends audio streams across all audio outputs (Analog, S/PIDF and HDMI) by default. The Audio output section enables you to change your sound settings with respect to your TV or audio system.

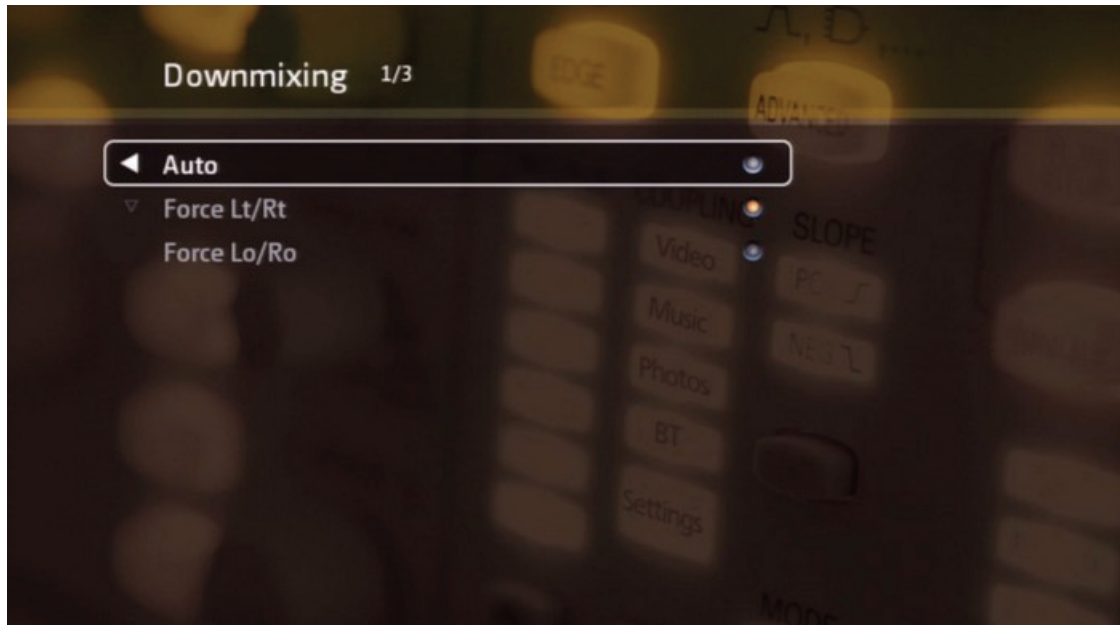


Please consult your audio system documentation or manufacturer for the correct audio features.

S/PIDF: Support 2-channel decoding or passthrough on several audio formats.

Downmixing: Mix multiple channels of audio together to produce a 2-channel sound.

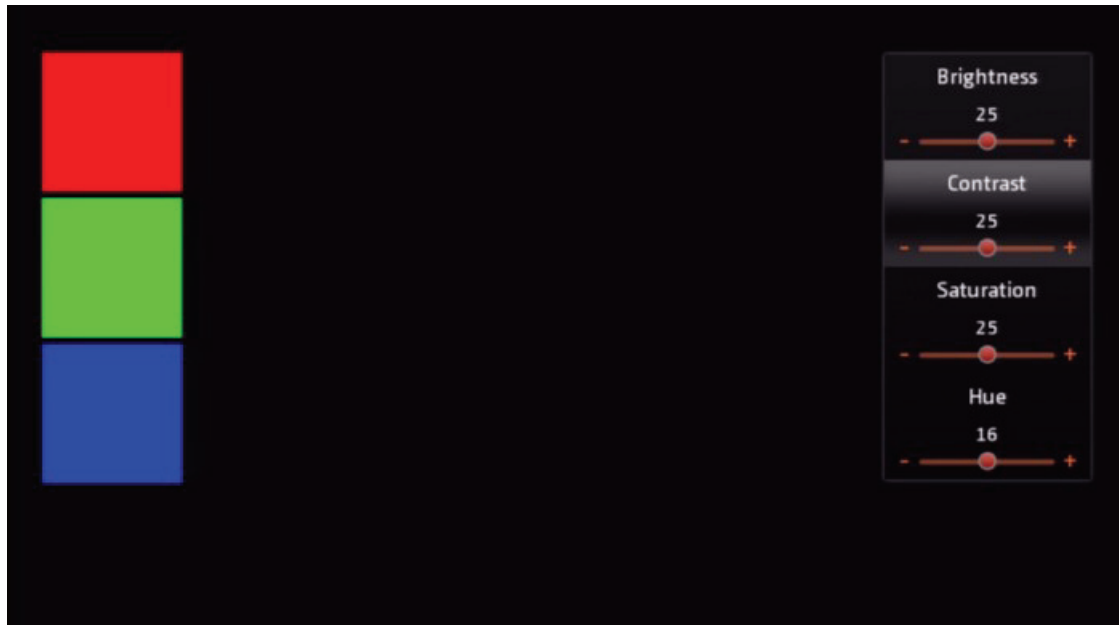
- Auto: The downmixing type is based on the audio stream.
- Force Lt/Rt: Lt/Rt is recommended for Dolby Pro Logic decoding.
- Force Lo/Ro: Lo/Ro is recommended for stereophonic sound playback.



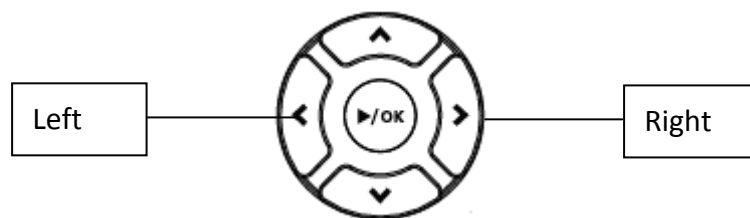
Dolby Digital DRC: Enables Dynamic Range Control to purposely increase low-level sounds or decrease high-level sounds for late-night viewing.

### 5.1.3 Display settings

In the Display settings, you can configure the brightness, contrast, saturation, and hue values of your TV.



Press the Up and Down keys to highlight the settings you want to change. Simply use the Left, Right, and OK keys to make desired changes.

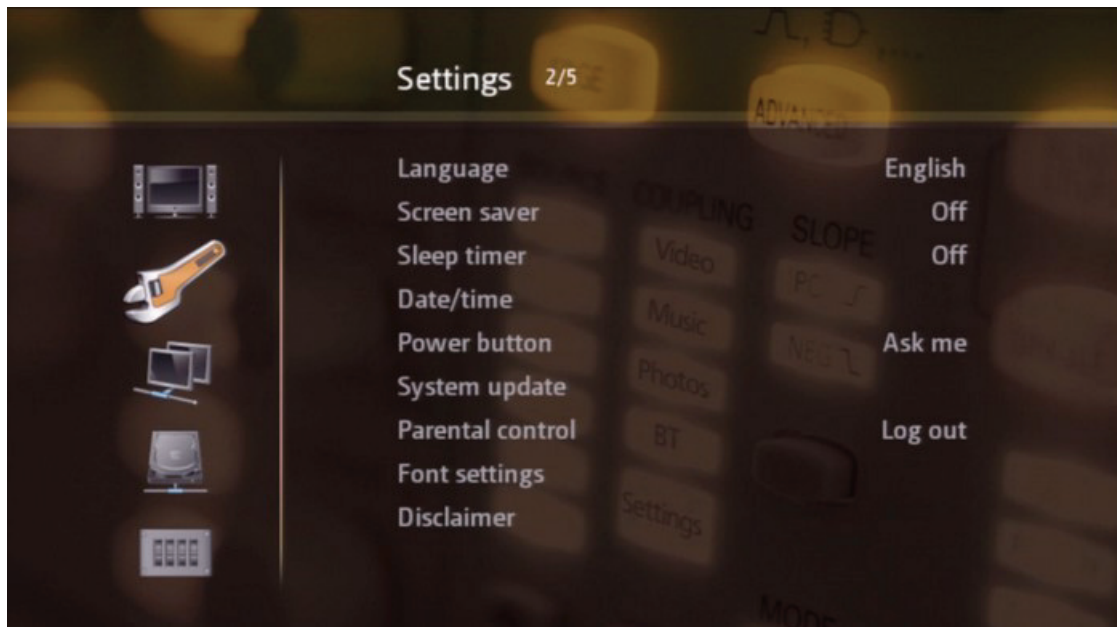


### 5.1.4 Support 24p

When 24p support is selected, NMP-1000P will automatically detect the TV type and choose the appropriate output. Note that NMP-1000P must be connected to a 24p-supported TV so that this feature can be used properly.

## 5.2 System Settings

In the System settings, you will see a list of system related features such as language, date and time, and system update.



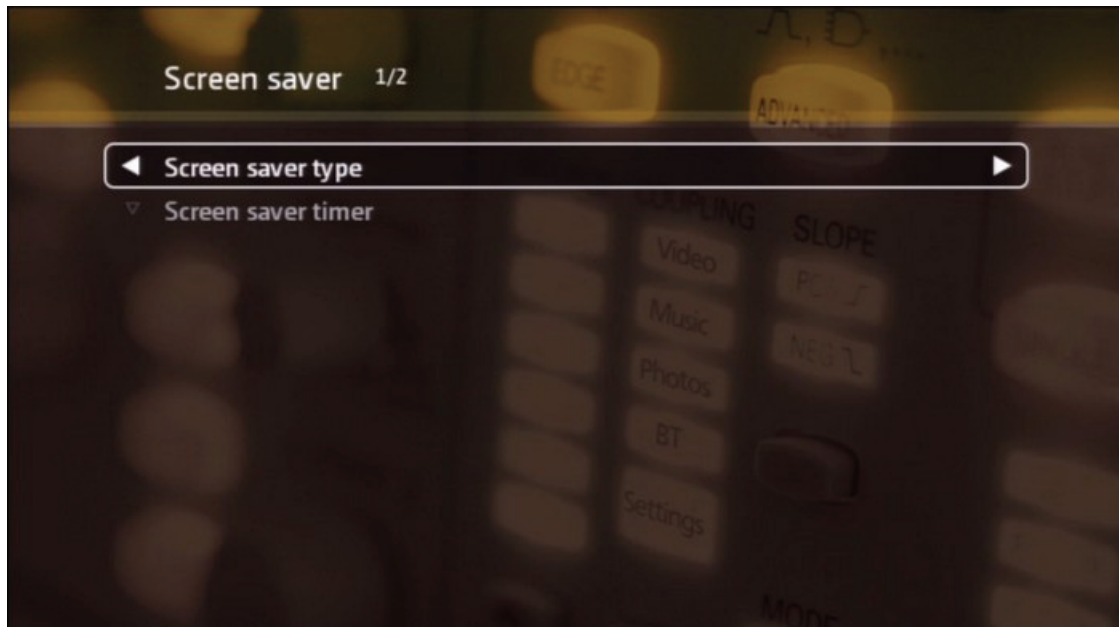
### 5.2.1 Language

Select a desired language for the user interface.



### 5.2.2 Screen saver

You can set your screen saver behavior in this section.



Select the screen save type that will be shown when the system is standby.

- Off: Turn off the screen saver.
- Logo: Display a floating QNAP logo.
- Clock: Display a floating clock.

You can set the screen saver activation timer from 1, 2, 5, or 10 minutes.

### 5.2.3 Sleep timer

This feature enables you to set the timer to shut down NMP-1000P.

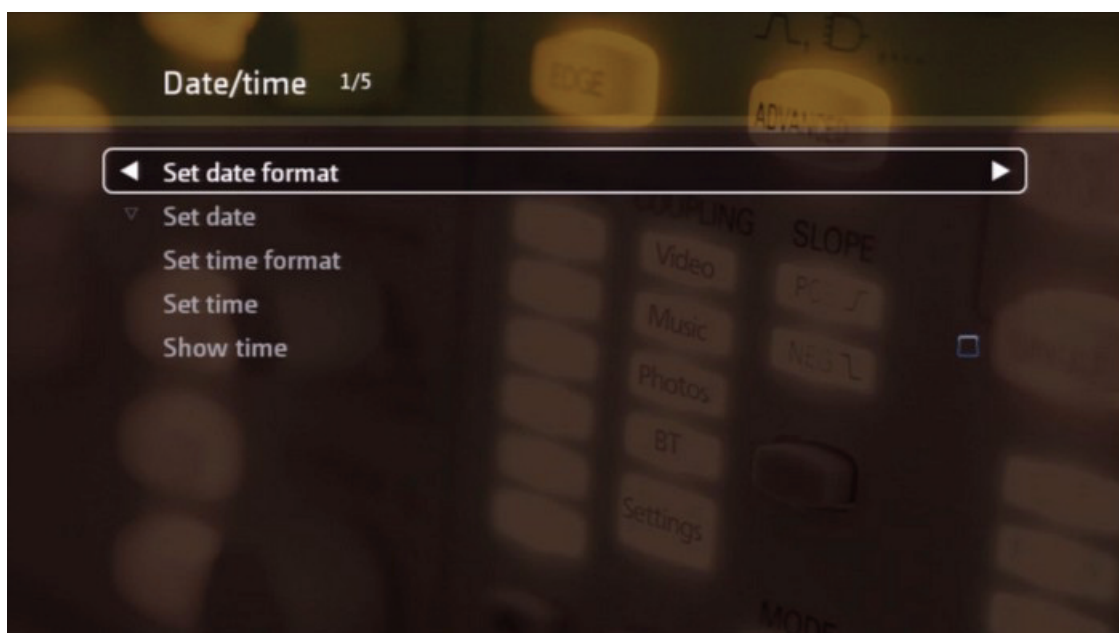




### 5.2.4 Date/time

You can change the date and time settings.

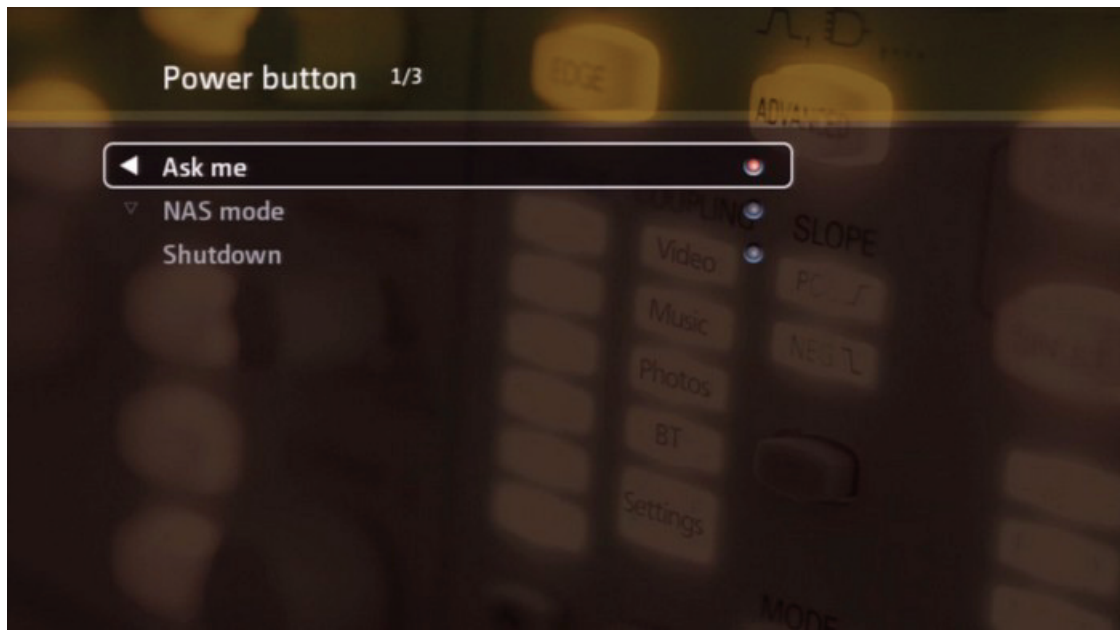
- Set date format: Select the date display format.
- Set date: Use the directional keys to adjust the date.
- Set time format: Select the hour display format.
- Set time: Use the directional keys to adjust the time.
- Show time: Select to show the date and time or not. The time will be displayed on the top right hand corner of the screen.



### 5.2.5 Power button

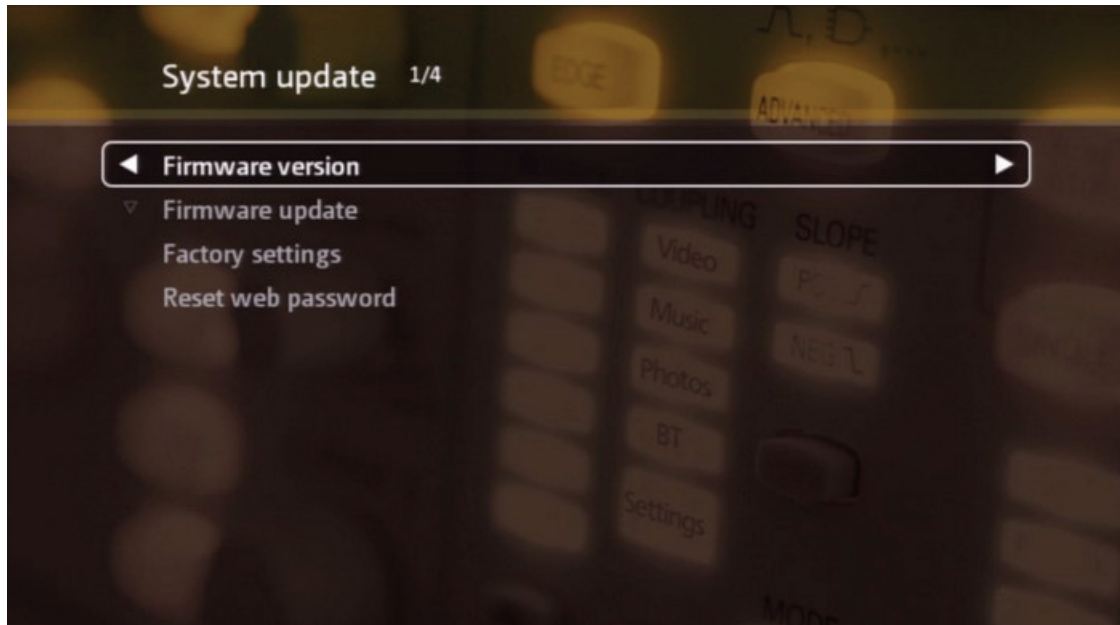
Customize the behavior of the power button of NMP-1000P. The “NAS mode” is to put the system into NAS behavior where no media player function will be available. The TV screen is shown blank in NAS mode.

Select “Ask me” and the system will prompt you to select the action to take when the power button is pressed.



### 5.2.6 System update

You can check the system firmware version, update the system, restore the system settings to default, and reset the web login password.



### **Firmware version**

You can check the firmware version of the system. The latest firmware is available on QNAP official website <http://www.qnap.com>.

### **Firmware update**

To update the system firmware, download the correct firmware file from QNAP website <http://www.qnap.com/> and save it on the internal hard drive of NMP-1000P or a connected USB storage device. Make sure there is at least 256MB of free space on the hard drive for the firmware file. Follow the on-screen instructions to update the system.

To update the system firmware by the web interface, see Section 9.7.3.

**Note:** There are few common reasons that the firmware upgrade may fail.

- A. There is insufficient space (less than 256MB) on the internal hard drive of NMP-1000P or the external USB storage device.
- B. The firmware file you have downloaded is incorrect or corrupted. Please try to download the firmware file again.
- C. A power shortage occurs during firmware update. See Section 12.1 for system recovery.

### **Factory settings**

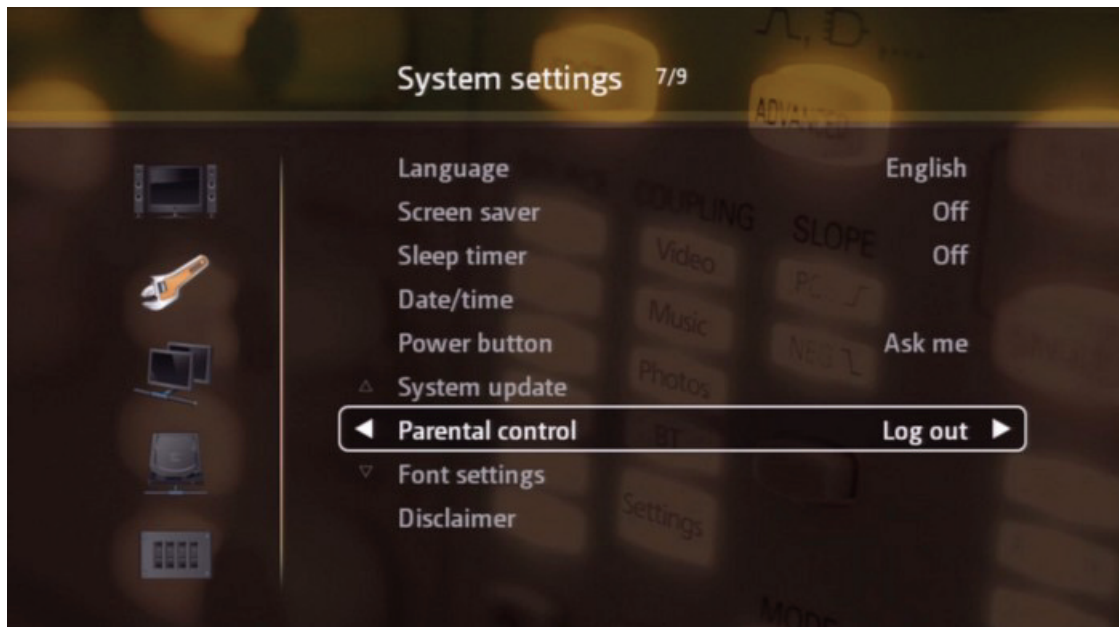
You can restore the system settings to default. The settings include system configuration, share folders, user accounts.

### **Reset web password**

You can reset the web password to default, which is “admin/admin”.

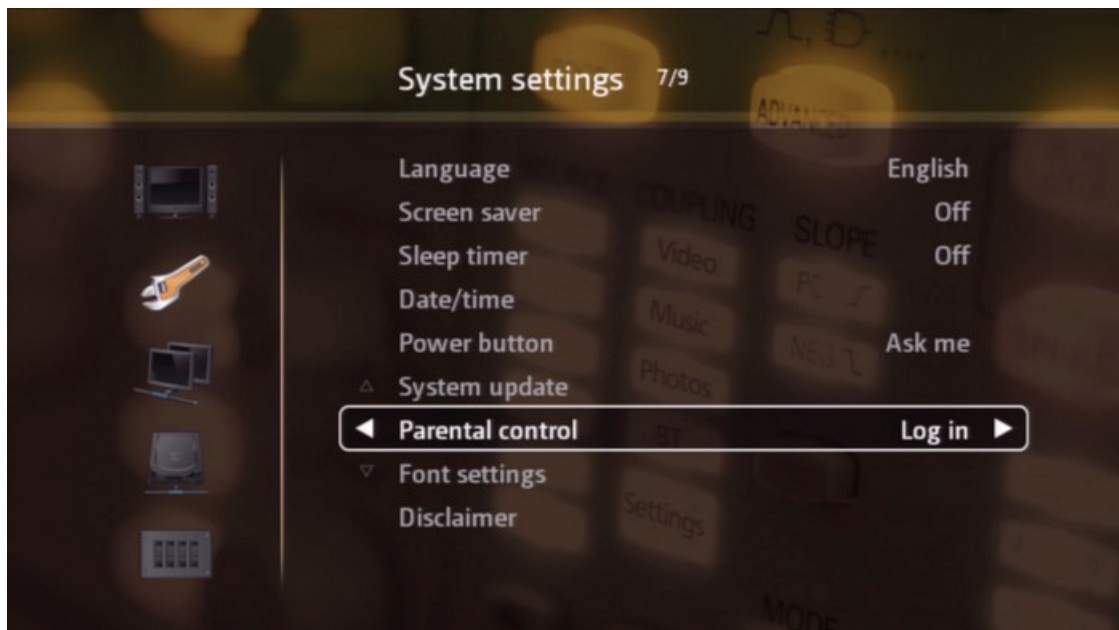
### 5.2.7 Parental Control

The parental control option enables you to login and logout to manage media lock and ensure the locked contents are invisible to those who do not have access right to the data.

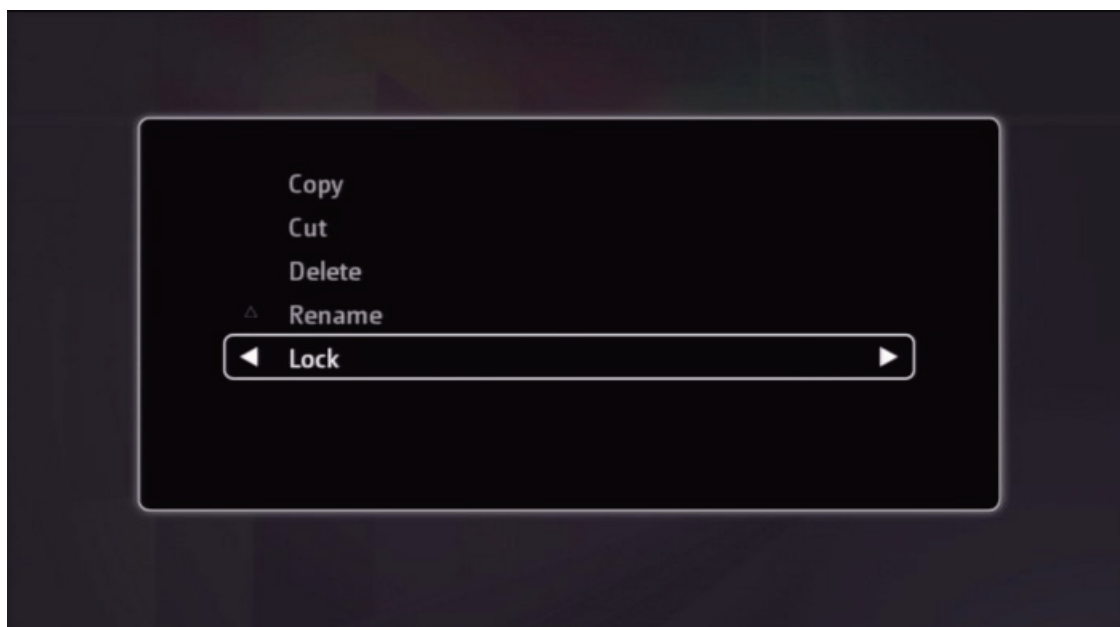
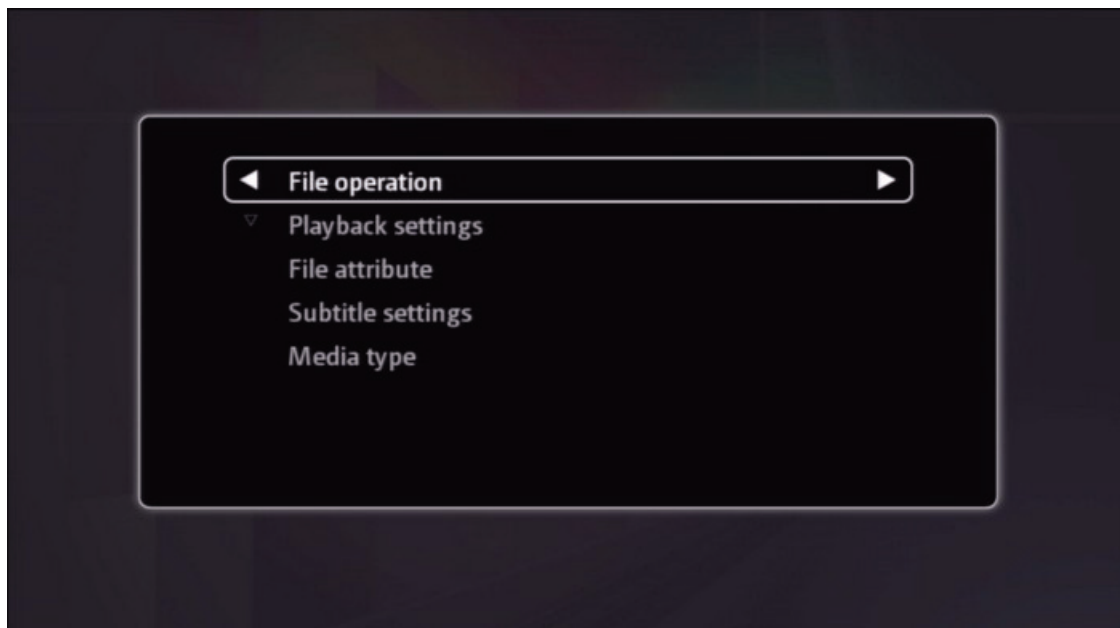


You will be prompted to enter the parental control password. The default password is “111111”.

Once you have entered the correct password, the status of parental control is shown as “Log in”. You can logout or change the password.



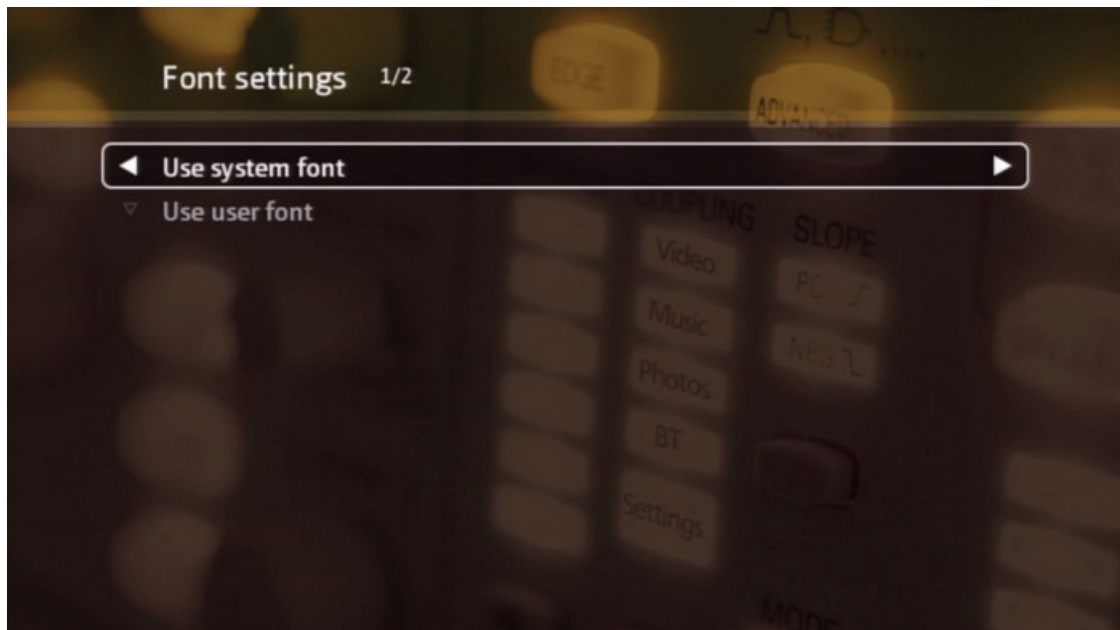
After you have logged in parental control, you will see the “Lock” or “Unlock” options by selecting a folder or file, and then pressing the Options key and choosing “File operation”. You can lock the folder or file that you wish to be hidden from others who do not have access to parental control. Parental control can be changed from the “Settings” menu. The password can be reset on in the web-based interface (see Section 9.7.5).



### 5.2.8 Font settings

To use your own font for system display, save the font file on the local disk of NMP-1000P and select the font.

**Note:** NMP-1000P currently supports True Type Font (.TTF extension) and Open Type Font (.OTF extension) font files. The font files must be saved on the internal hard drive of the player.



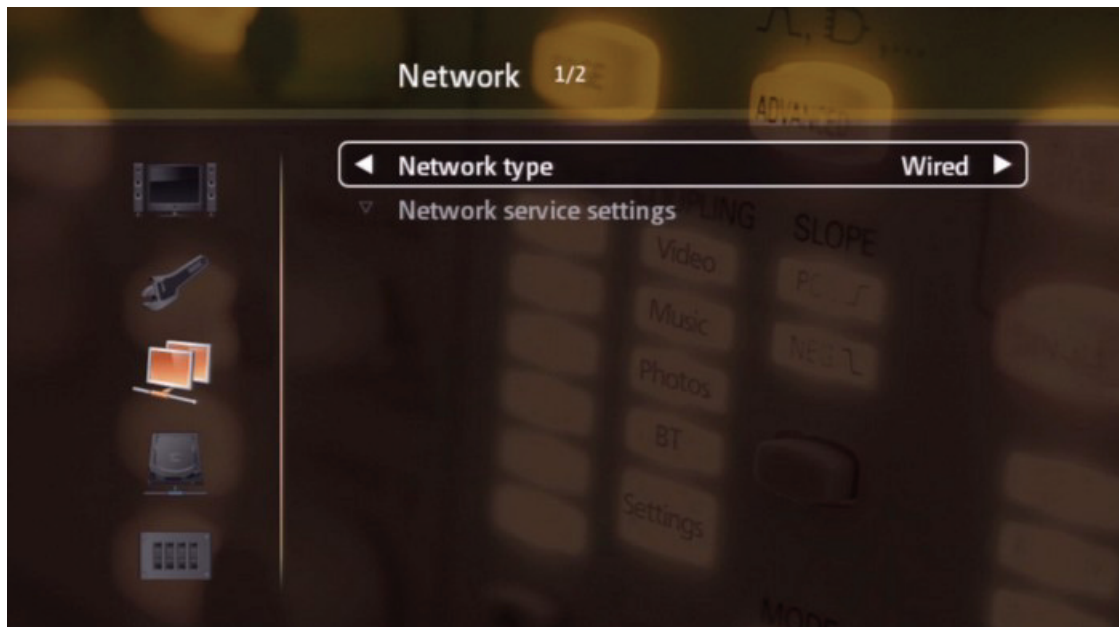
### 5.2.9 Disclaimer

You can view the license information [here](#).

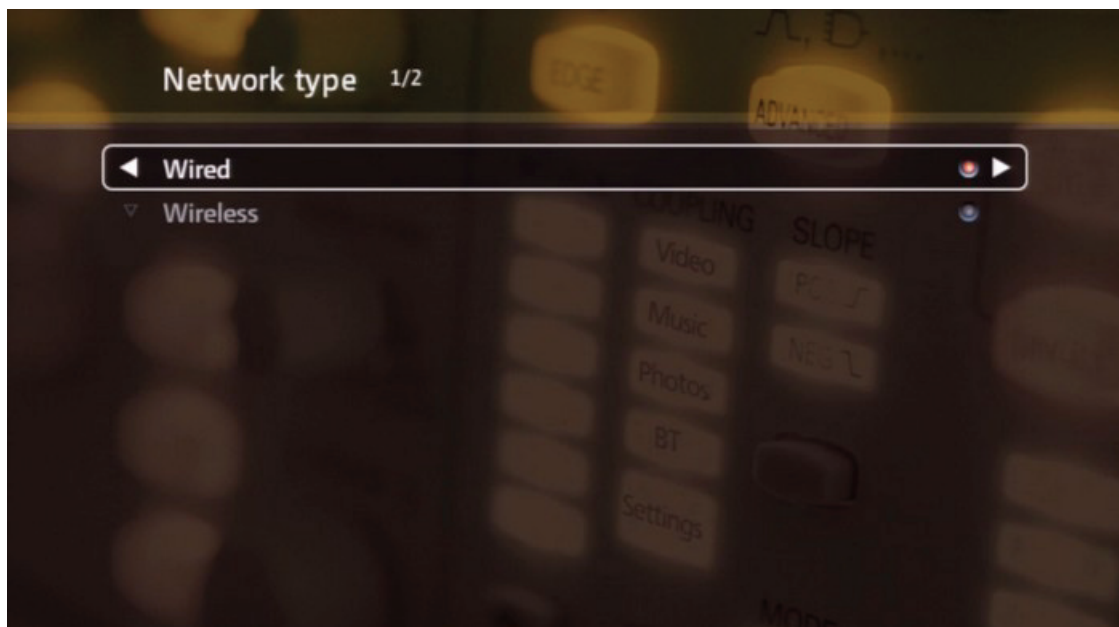


## 5.3 Network

You can configure the network settings of NMP-1000P.

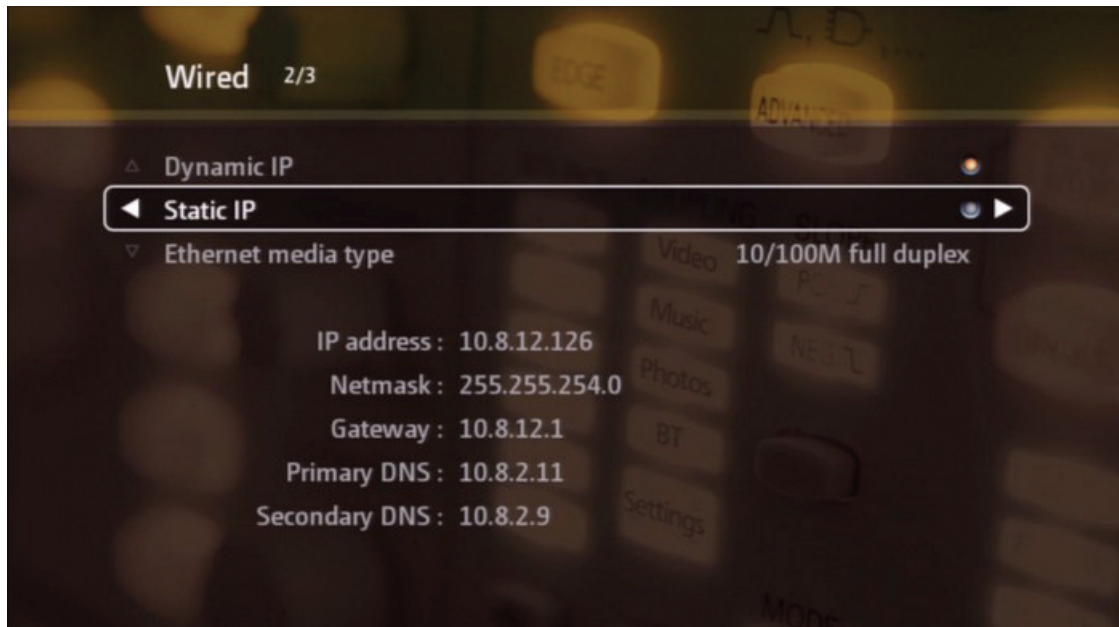


You can choose to use Wired or Wireless network type.

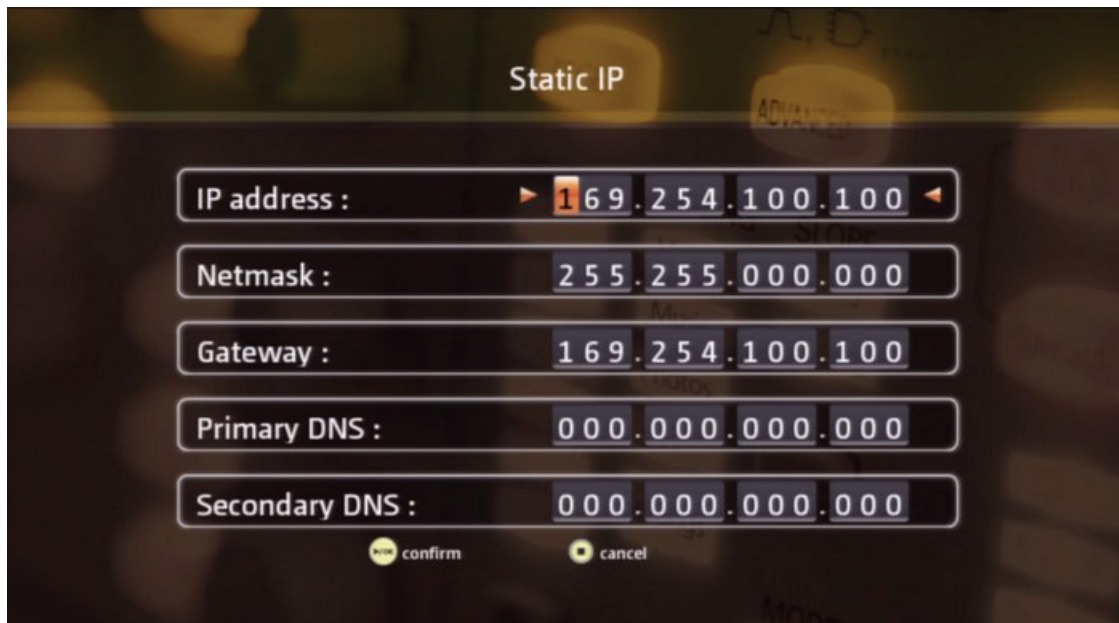


### 5.3.1 Wired network

The system uses dynamic IP (DHCP) by default. To use a static IP, select “Static IP”.



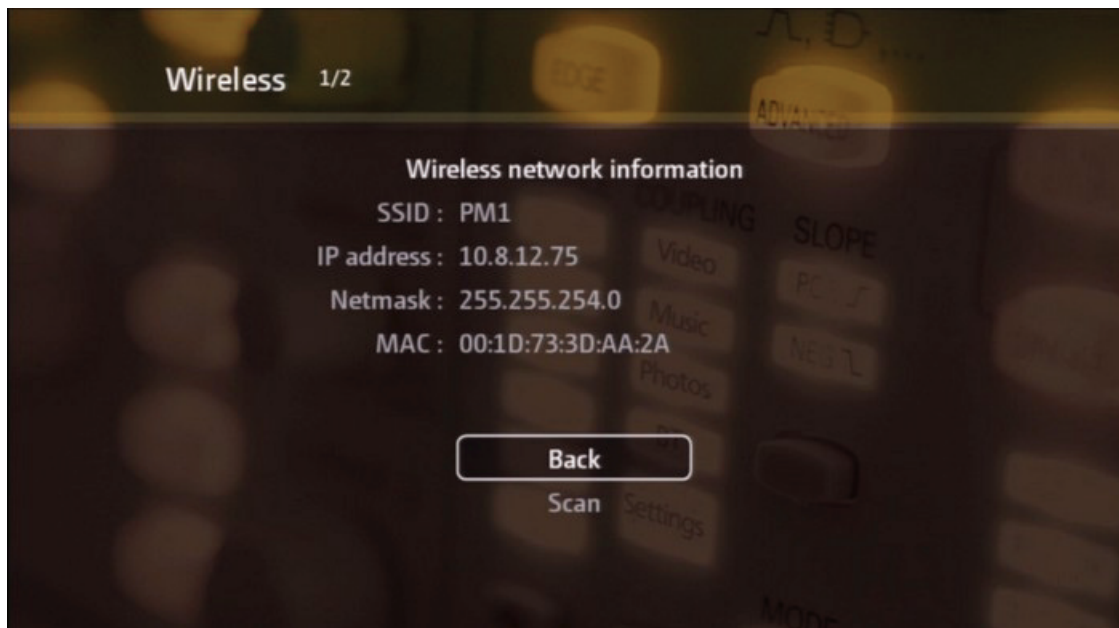
Use the directional keys and number keys (0–9) on the remote control to configure the IP settings. Press “OK” to confirm the changes.



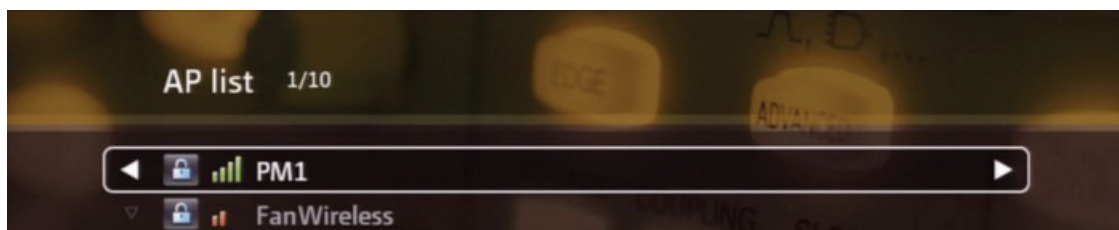
### 5.3.2 Wireless network

The wireless feature requires a wireless adapter to be connected to the USB port of NMP-1000P. Please refer to the QNAP official website (<http://www.qnap.com/>) for a list of compatible wireless adapters.

Wireless network information will be displayed and you can use the “Scan” button to set up the wireless network connection with available AP.



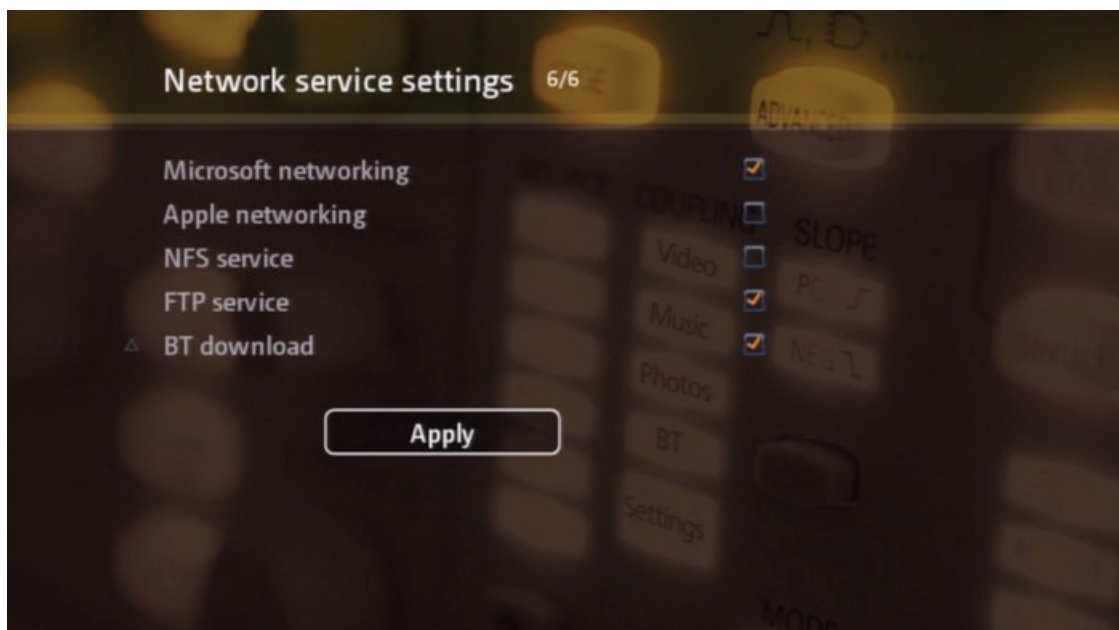
The list of available AP will be displayed. For AP that required a network key, a lock icon will be displayed before the AP name. NMP-1000P will prompt you to enter the network key when necessary.



### 5.3.3 Network service settings

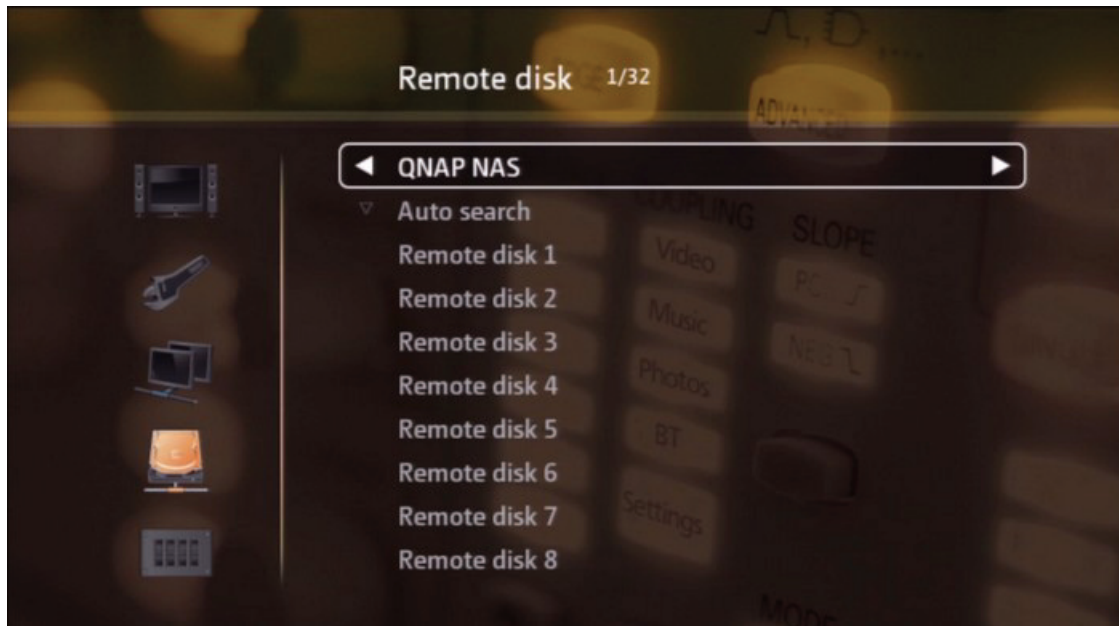
You can turn on or off the network services. The NFS server is turned off by default. After making the changes, press “Apply”.

**Note:** The BT download service is turned on by default. When you have BT download running in the background, you will notice obvious stutter of media playback or slow response of UI navigation. Therefore it is recommended to turn off the BT download service when you are using Player mode.



## 5.4 Remote Disk

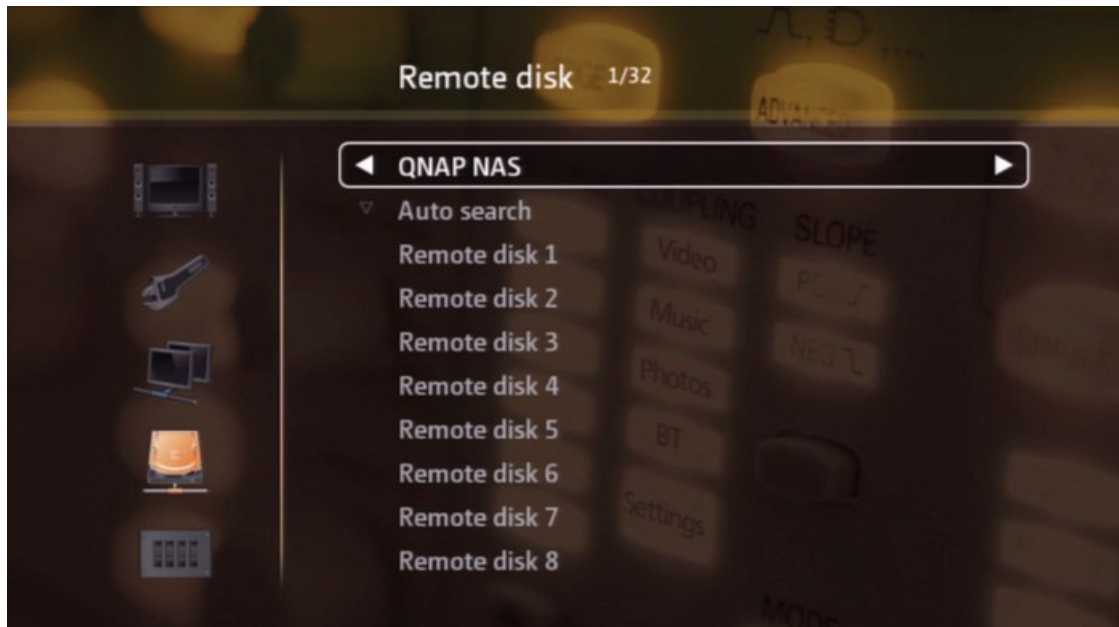
The system supports up to 32 remote disk connections at the same time, including network share folders and USB/eSATA storage devices. Each partition on the USB/eSATA storage device is mounted as one remote disk connection.



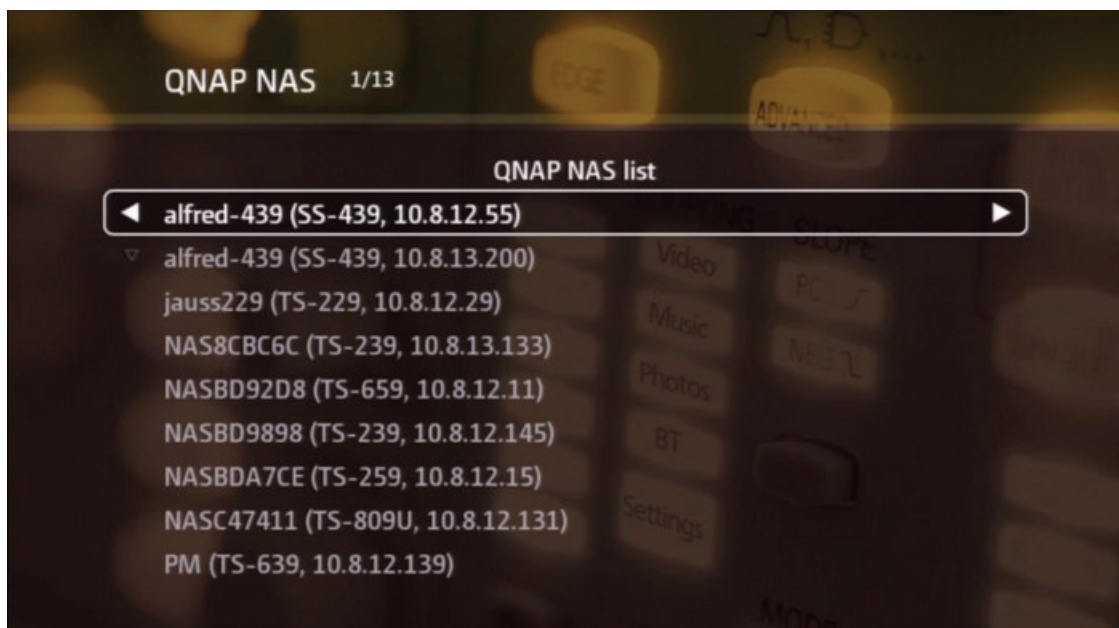


### 5.4.1 Auto search of QNAP NAS

You can use this function to search for all the available QNAP NAS on the local network.

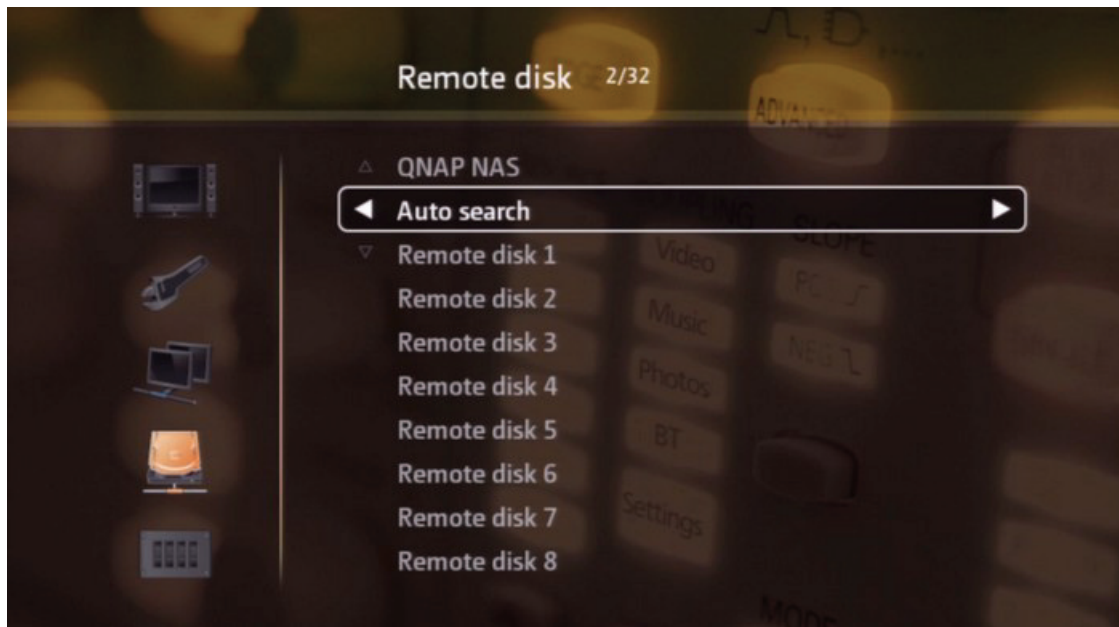


A list of QNAP NAS will be shown. Select the server to connect to, enter the login information, and select the share folder to mount as a remote disk on NMP-1000P. Upon successful connection, you can play the multimedia contents on the NAS.

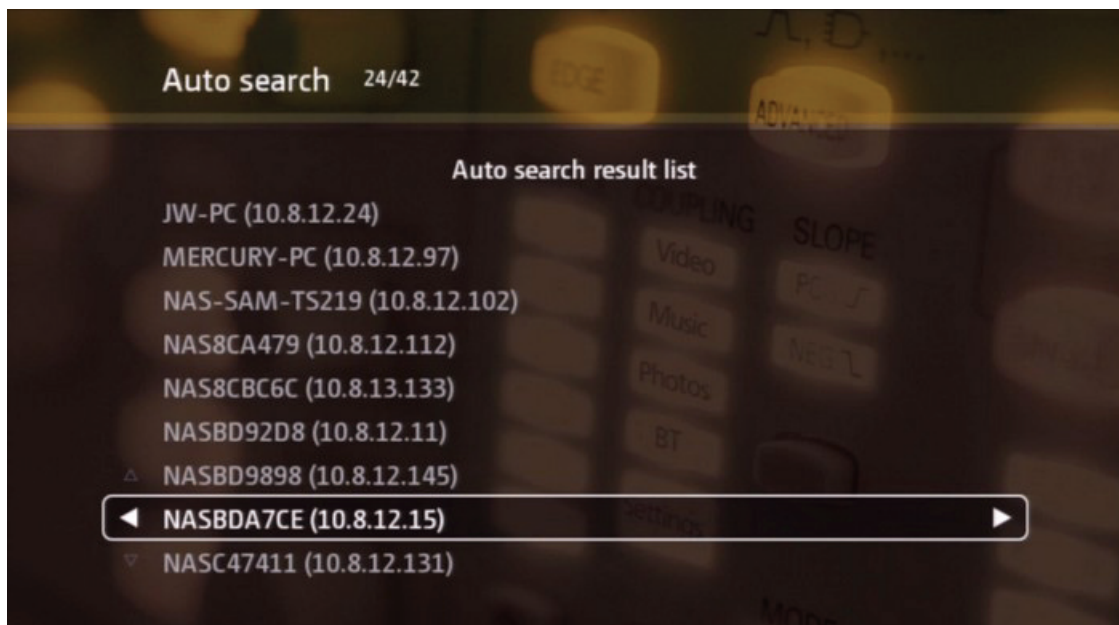


### 5.4.2 Auto search for remote disk setup

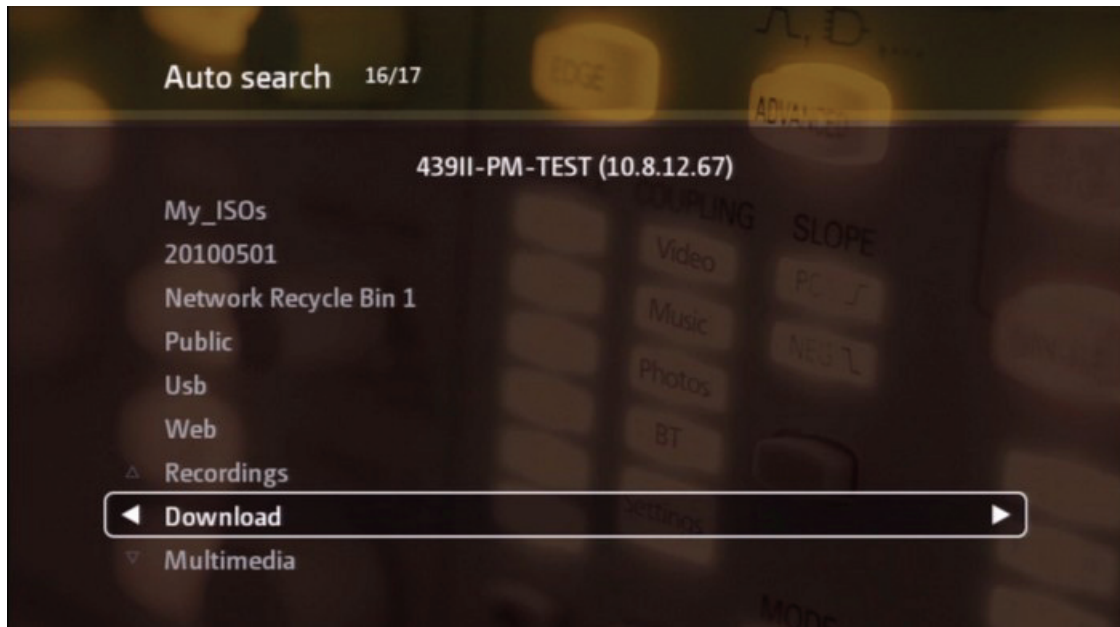
The auto search can automatically search for PC or NAS with Microsoft networking connection.



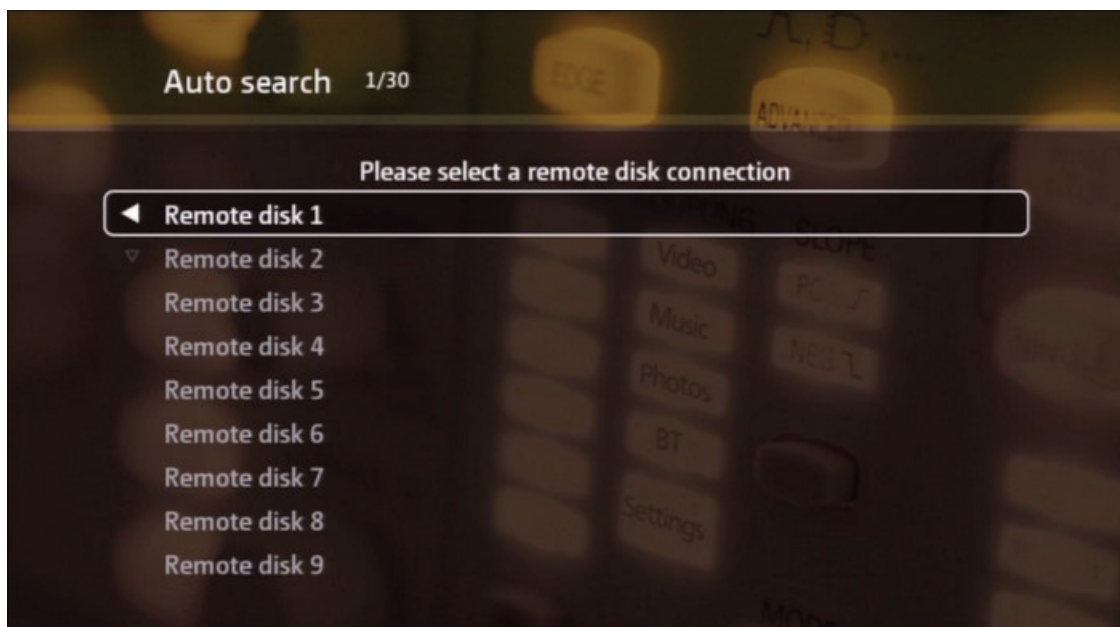
The auto search result will list the available computers or NAS.



Select a PC or NAS and then enter the user and password when prompted. With the proper authorization, a list of folder can be selected for setting up with remote disk connection.



Select a remote disk connection you would like set up with.





### 5.4.3 Manual remote disk setup

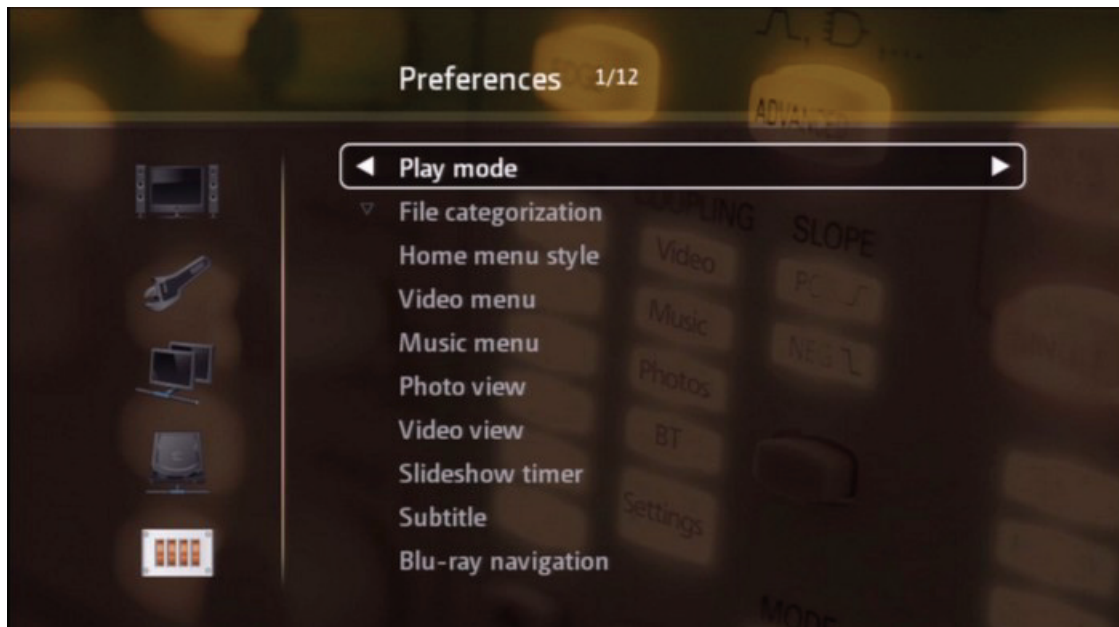
The Microsoft networking is for Windows PCs connection where NFS is for Linux PCs connection. The only difference is that NFS does not require user/password information. See Section 4.1.1 for the example of setting up the remote disk.

You can connect or disconnect each remote disk. This is useful when you have already used up all 32 remote disk connections but would like to connect a USB or eSATA storage device.



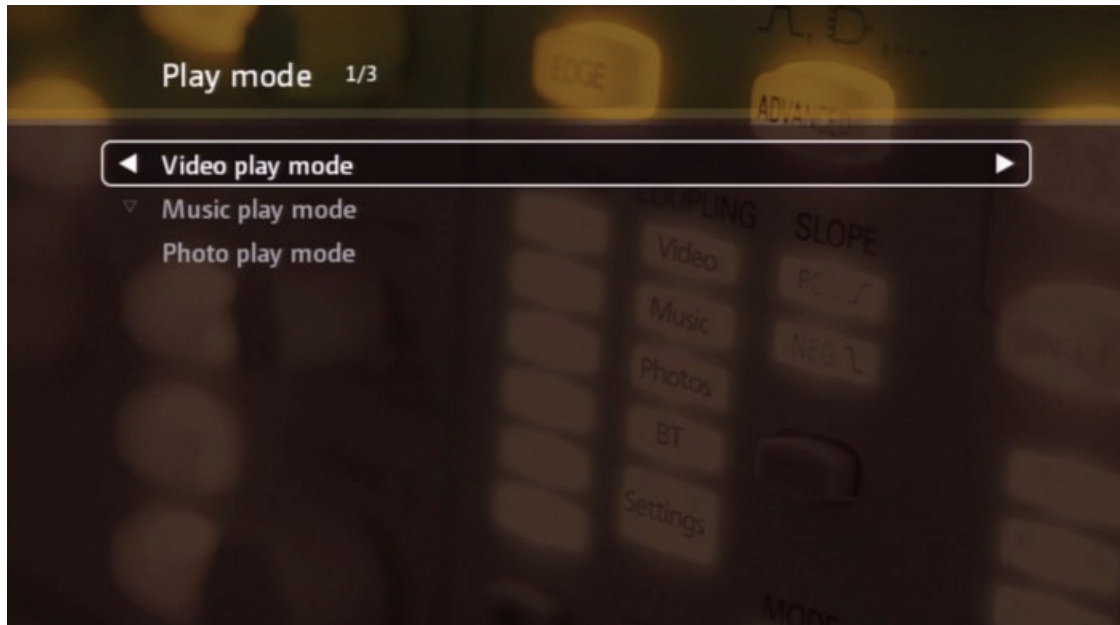
## 5.5 Preferences

You can customize the user interface and configure the media playback features.



### 5.5.1 Play mode

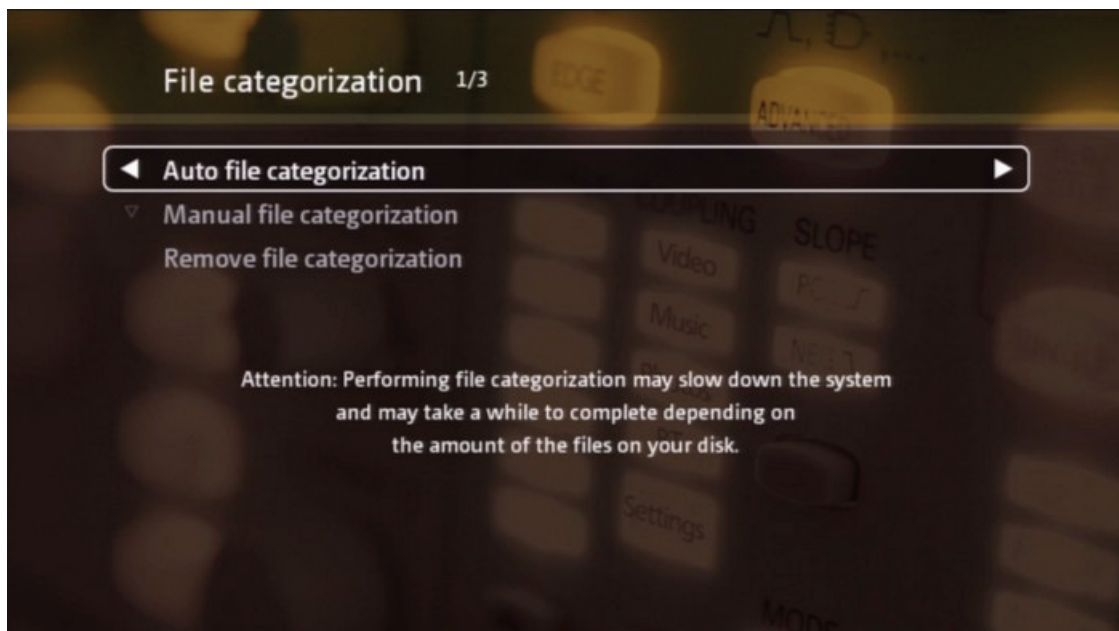
Select the playing mode, shuffle, or repeat, for media playback. You can select to repeat the current file or repeat all.



### 5.5.2 File categorization

This feature is used to create an index for all media files so that they can be categorized systematically for easy browsing.

**Note:** The index file of each storage device is stored on its own disk. NMP-1000P does not store the index files of other storage devices on its local hard drive.



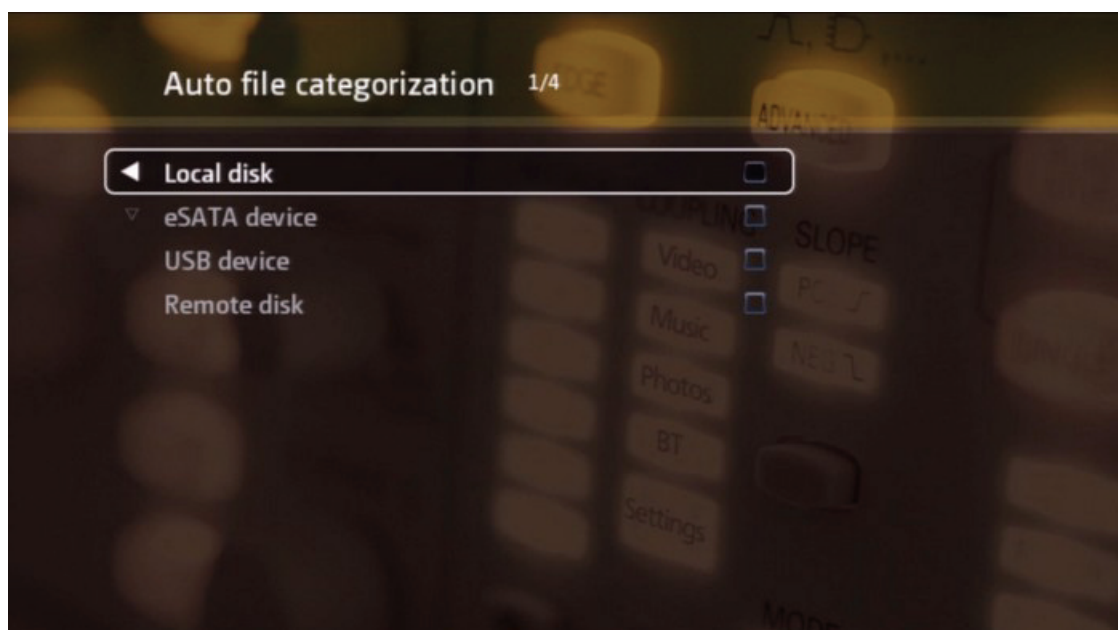
Auto file categorization can be configured for local disk, USB/ eSATA storage devices, and remote disks. It is turned off by default.

**Note:** After you turn on the auto file categorization feature, you must restart NMP-1000P to start the categorization process.

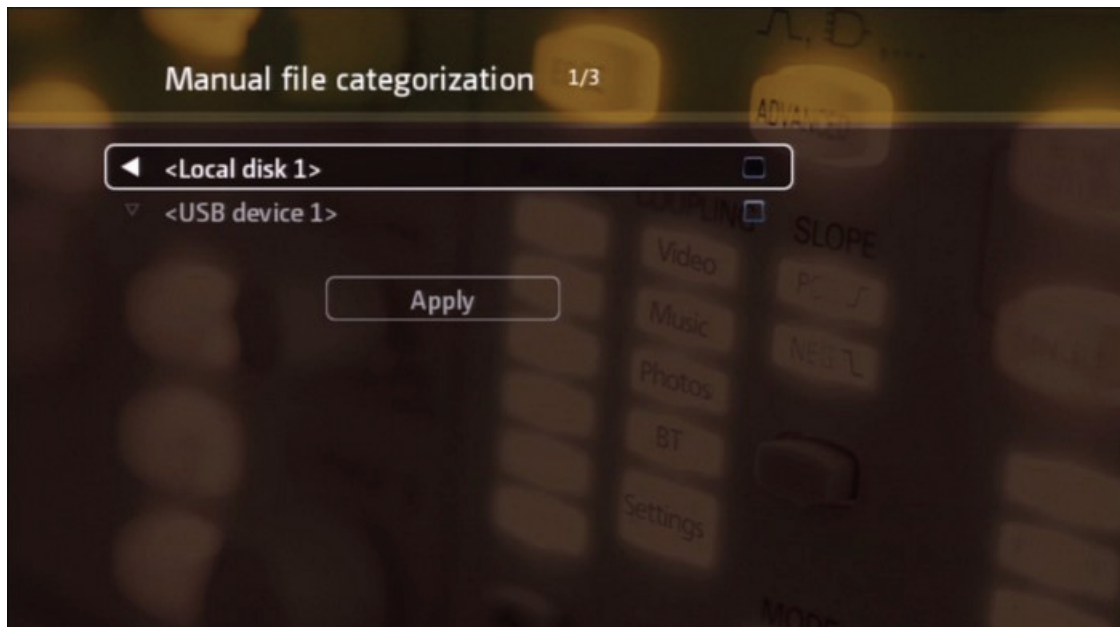
The categorization process will be performed in the following condition:

Storage Device	When auto file categorization will be performed
Local disk	Every time the device is powered on (the categorization process time will vary depending on the amount of new files added to NMP-1000P)
USB/ eSATA storage device	Every time when the USB device is connected to NMP-1000P
Remote disk	Every time when the remote disk is connected

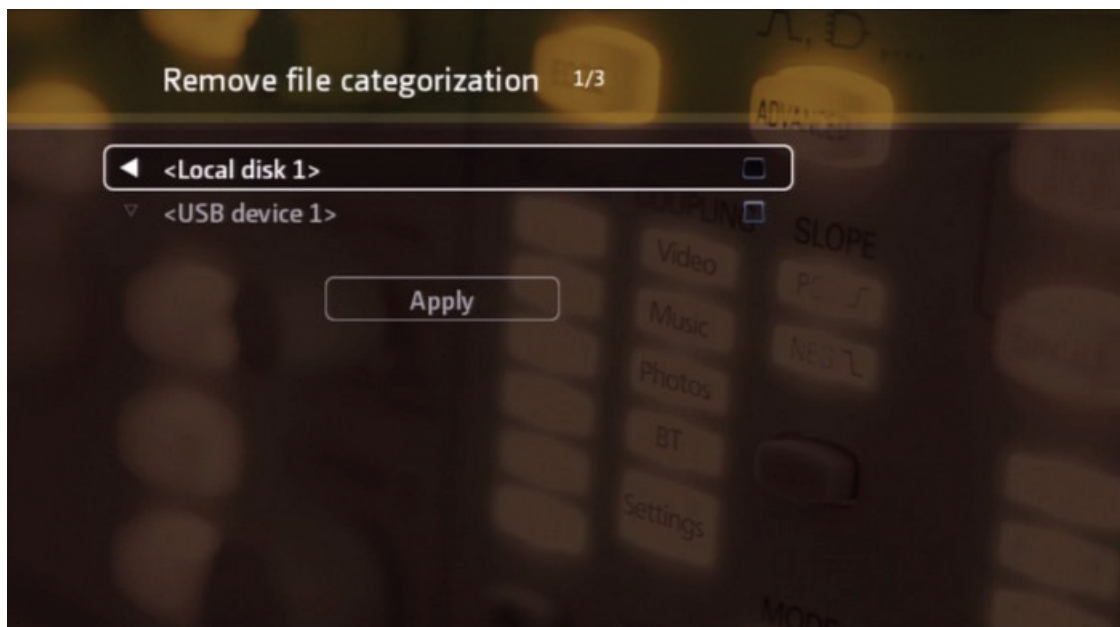
**Note:** Auto file categorization needs to be performed every time so that new files are added into the media library. When the file categorization is in process, an animation is shown on the upper right hand corner of the screen. NMP-1000P must have write privilege on the remote disks for automatic file categorization.



You can also manually perform file categorization on the local disk, connected remote disks or connected USB storage devices.

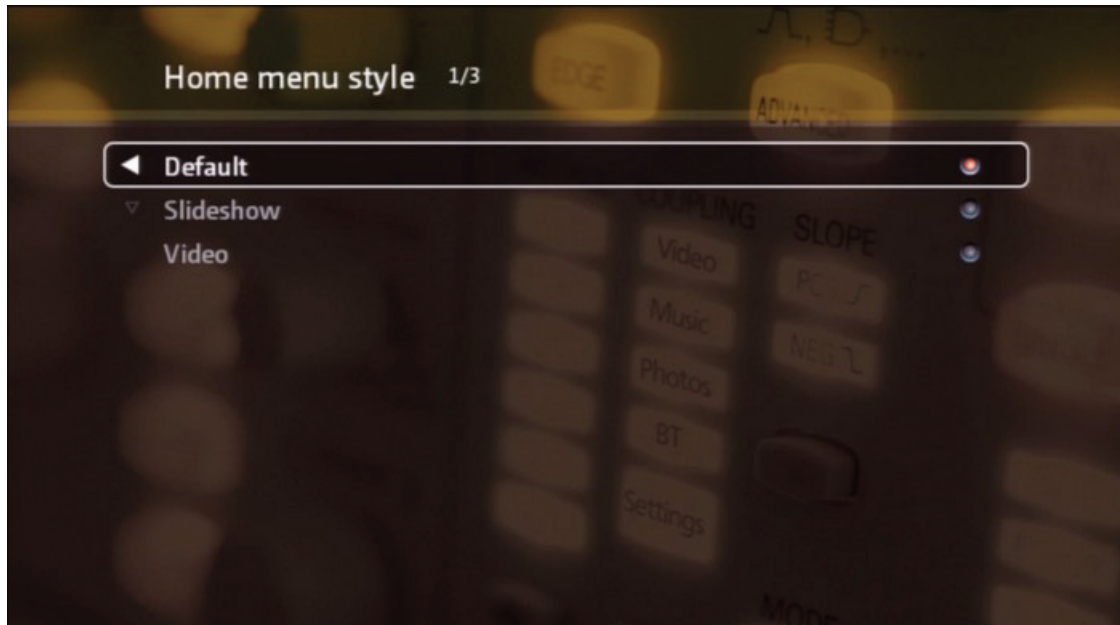


To remove the index, uncheck the option and apply the changes.



### 5.5.3 Home menu style

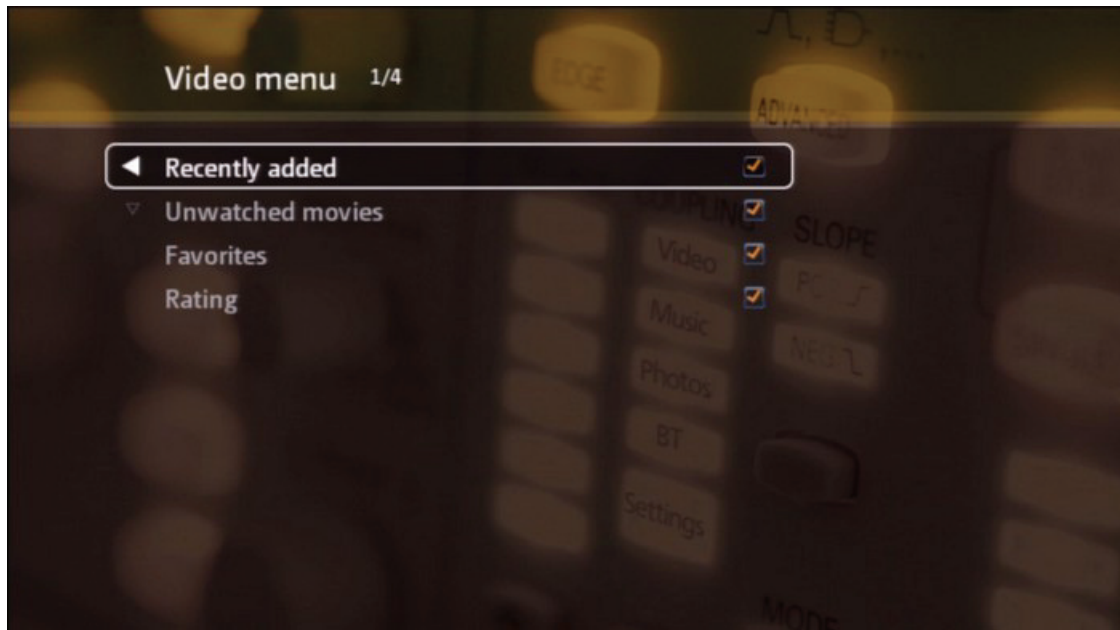
Select the background of the home menu. You can use the default background or play a slideshow of the photos or a video.



### 5.5.4 Video menu

Select to display the categories generated from the file categorization for all your video files.

**Note:** You must have performed file categorization before you can see the media categorization menu.

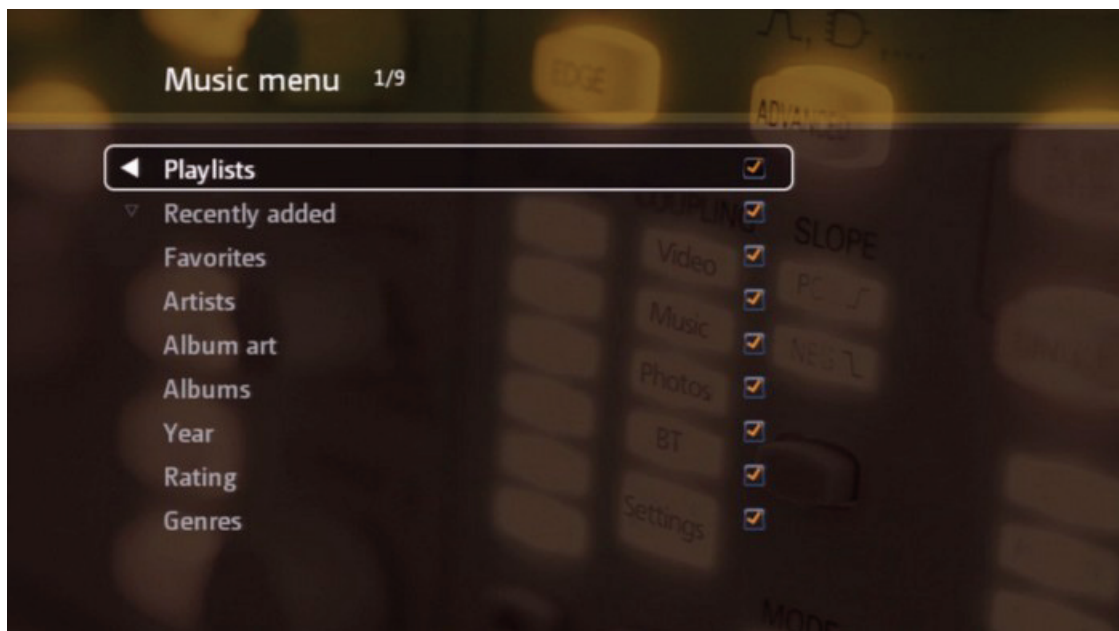




### 5.5.5 Music menu

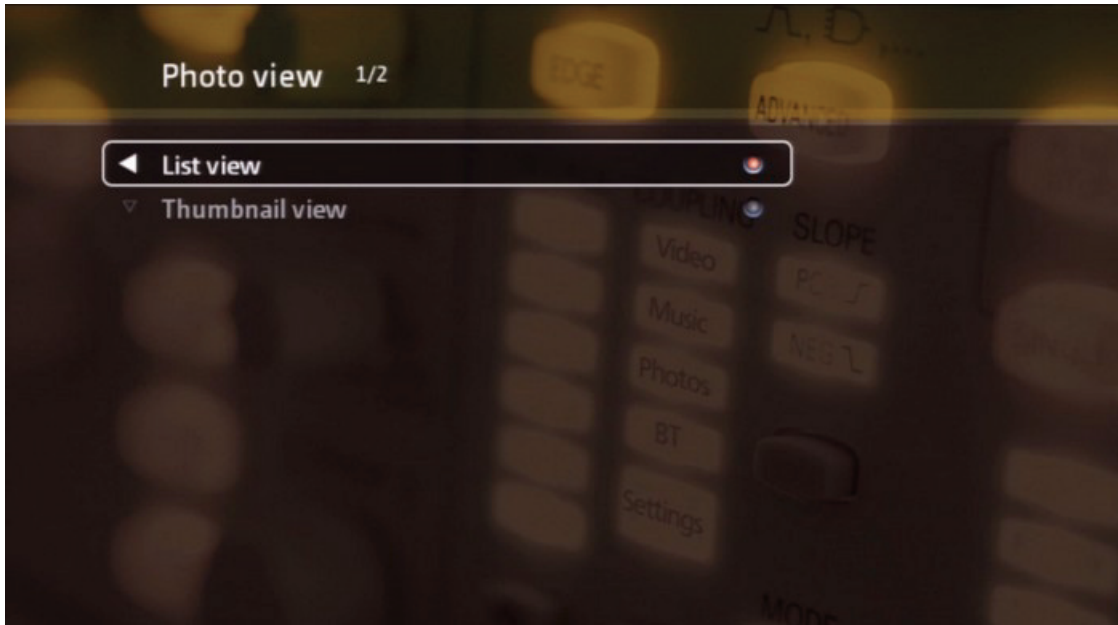
Select to display the categories generated from the file categorization for all your music files.

**Note:** You must have performed file categorization before you can see the media categorization menu.



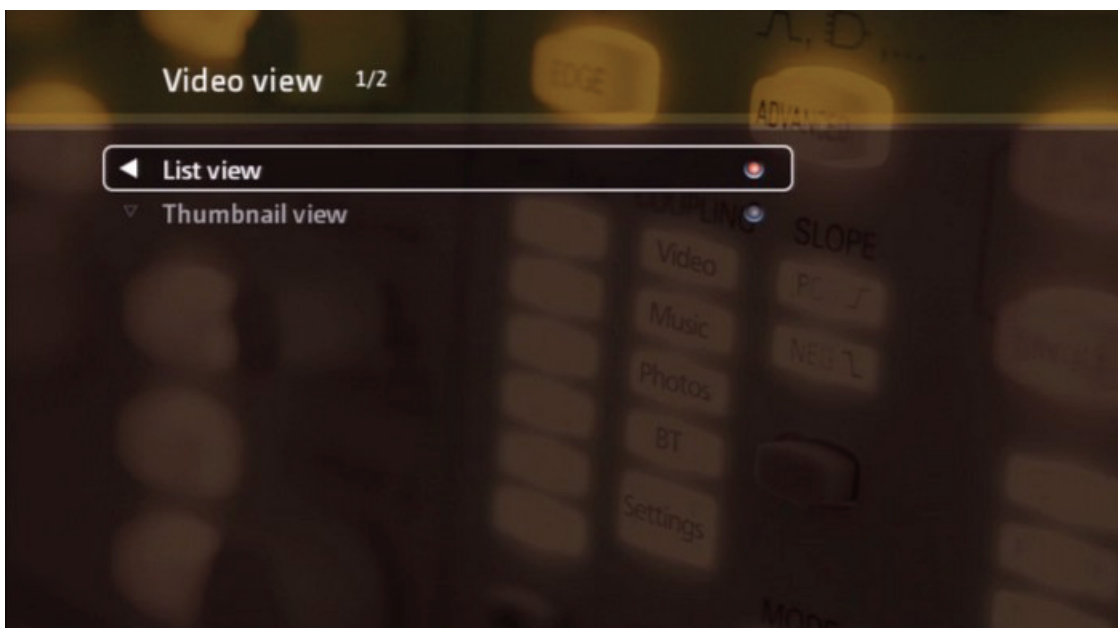
### 5.5.6 Photo view

Select to view the image files (photos) in list or thumbnail view.

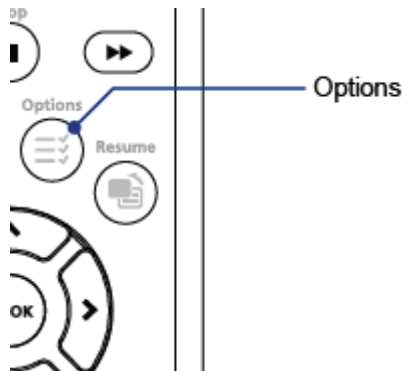


### 5.5.7 Video view

Select to view the videos in list or thumbnail view.

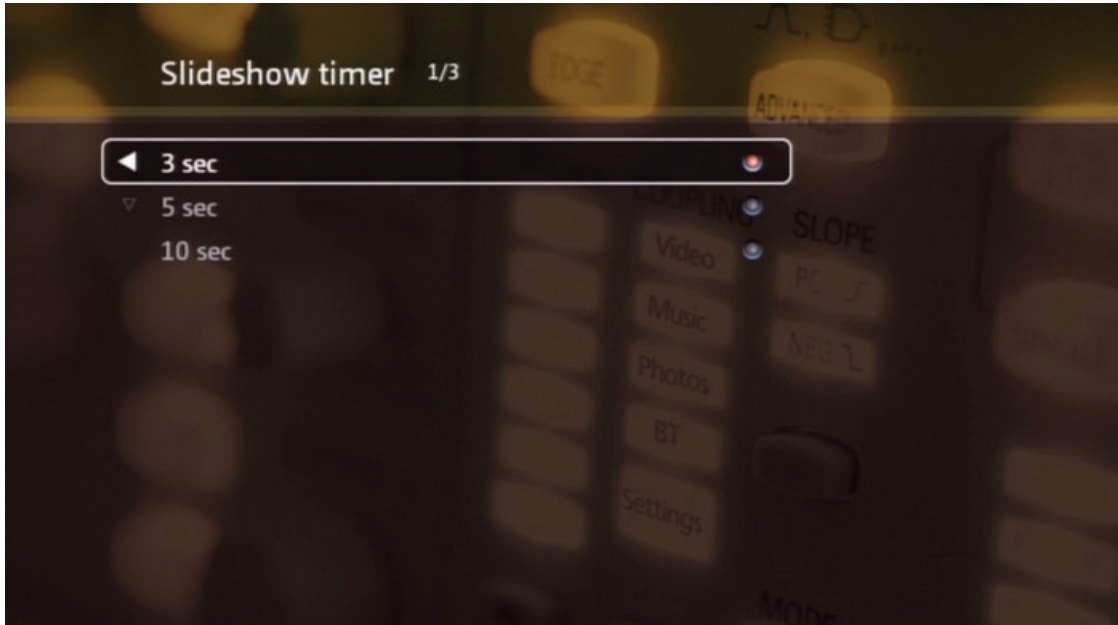


You can change the view style from the “Options” menu when you are viewing the image or video files.



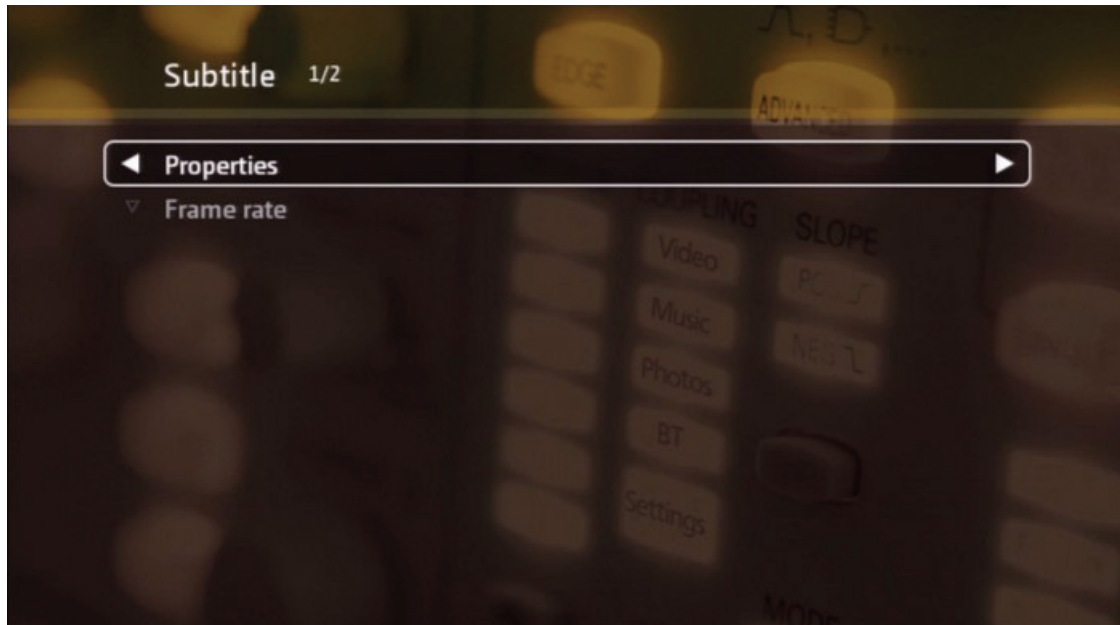
### 5.5.8 Slideshow timer

Define the number of seconds each image file (photo) is shown in a slideshow.

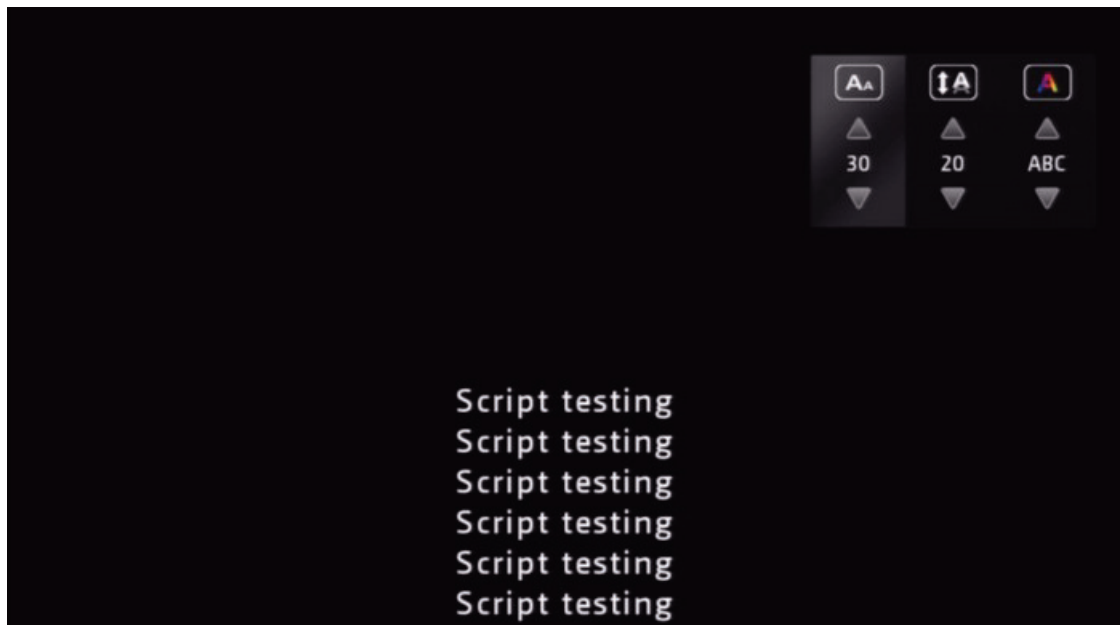


### 5.5.9 Subtitle

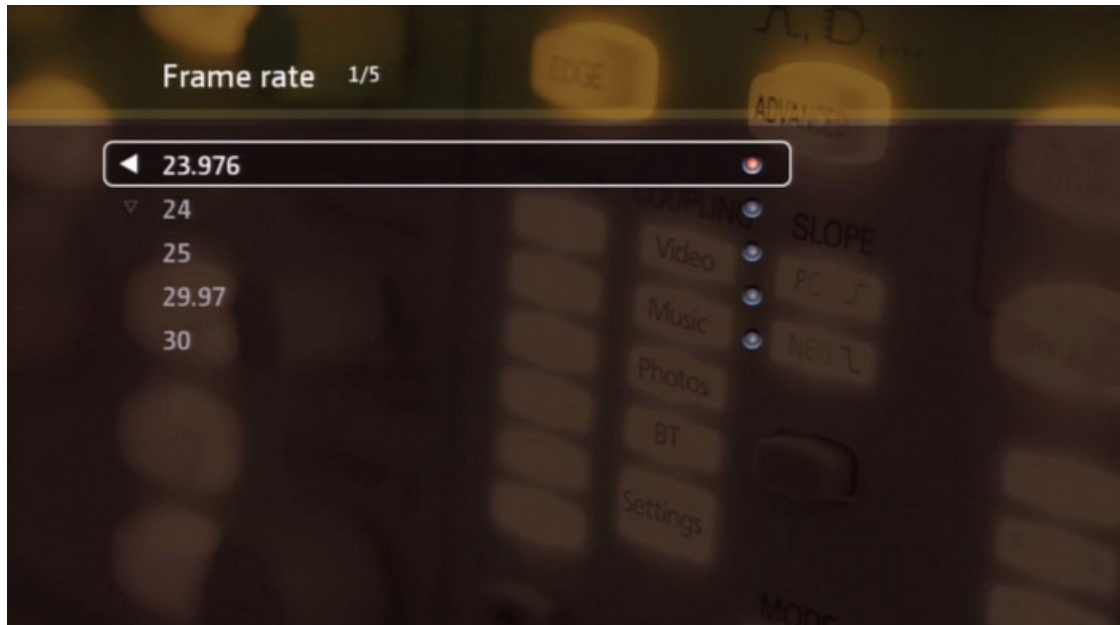
Configure the subtitle properties and the frame rate.



You can change the font size, position, and color of the subtitle. Press the OK button to save and exit.



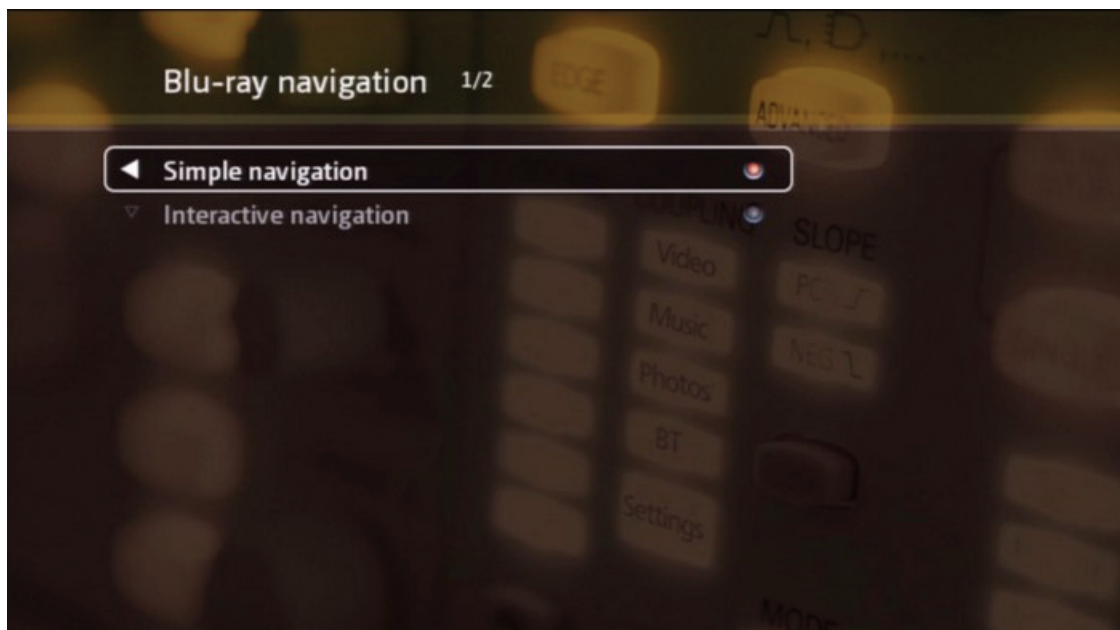
The frame rate setting is adjustable for frame rate based subtitle. It is useful when you encounter out of sync issue with different video frame rate settings.



### 5.5.10 Blu-ray navigation

“Simple navigation” offers quick menu for changing audio, subtitle, and scene/chapter. You can switch to the “Interactive navigation” for a more interactive menu when watching Blu-ray movies.

**Note:** If you play a movie with “Simple navigation”, you must stop and play the movie from the beginning in order to switch to “Interactive navigation”.



### 5.5.11 Turn off blue light LED

You can disable the blue light on the front panel.





## **6. Media Playback of NMP-1000P**

When you are playing the media files, besides the standard playback features, such as fast forward, fast rewind, previous, next, play, and pause; you can press the “Options” key to bring out the option menu for additional features you can use.

### **6.1 Standard Media Playback Options**

These options are available for any kind of media playback mode.

#### **6.1.1 Delete**

You can choose to delete the current playback media file. Video, music, and photo playback will stop and exit to the navigation menu.

#### **6.1.2 Play mode**

You can change play mode anytime during playback. The options include shuffle, repeat current file or repeat all files.

#### **6.1.3 Information**

The media information is shown, such as the file format, subtitle used for the video, the file size of a music file, and the dimensions of a photo.

#### **6.1.4 Lock/ Unlock**

If you have logged in the parental control, you can lock or unlock the media file that is being played.

#### **6.1.5 Add to favorites and rating for video and music files**

If you have turned on the “Auto file categorization” or performed “manual file categorization”, you will see “Add to favorites” and “Rate” features listed on the option menu of video and music playback.

- 1) The file added to the favorites will appear in the “Favorites” category.
- 2) The file rated will be listed in the “Rating” category.

#### **6.1.6 Seeking feature for video and music playback**

You can use the “Seek” feature to go to a specific time frame of the current playing video or music file.

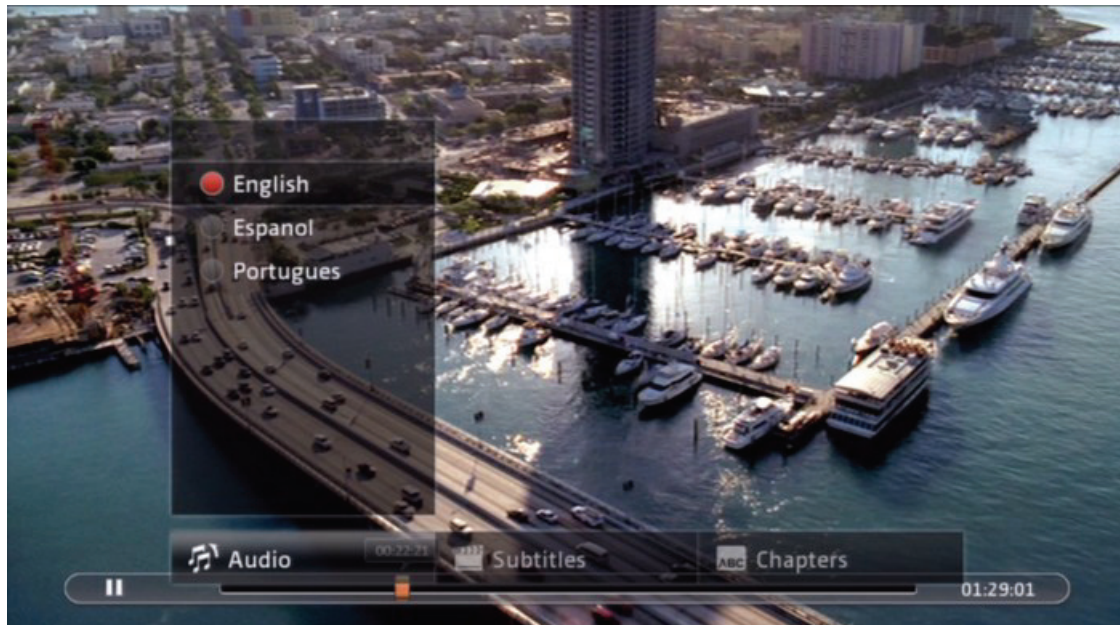
## 6.2 Play Video Files

You can use various standard video playback features with the remote control, such as:

- 1) Slow: Play the file at the speed of x1/2 or x1/4.
- 2) Seek: Go to a specific time frame.
- 3) Play/ Pause/ Stop: Play, pause or exit the current video file.
- 4) Fast forward/ Fast rewind: Forward or rewind the file at the speed of x2, x4, x8, x16, and x32.
- 5) Previous/Next: Go to the previous/next video.
- 6) Info: View the video information.



- 7) Audio/Menu/Subtitle: Bring up the quick menu to change audio, subtitle, or chapter/scene.



- 8) Zoom: Scale, zoom, or adjust the screen position of the video.



When you are playing a video file, the following specific features are available in the Options menu.

### 6.2.1 Subtitle settings

You can select the desired subtitle to play with a video, and change the subtitle encoding or properties.



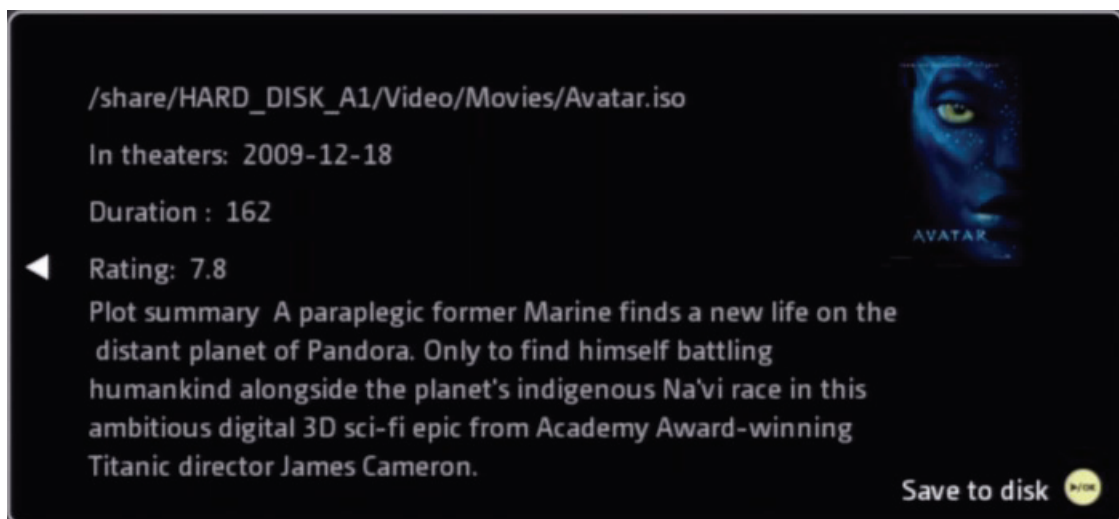
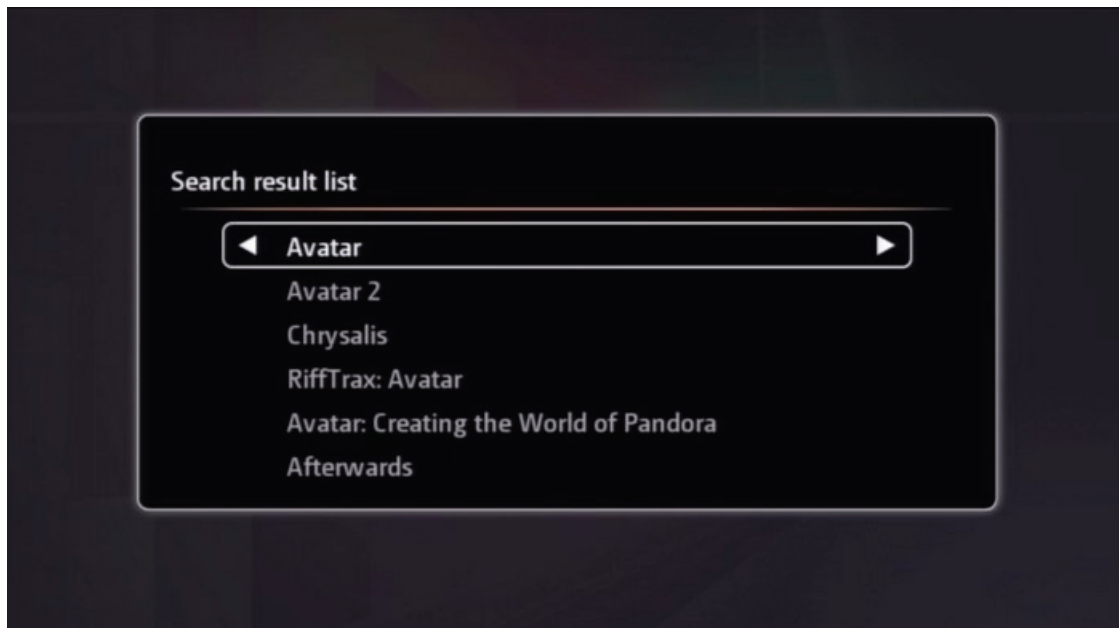
### 6.2.2 Playback settings

You can change the TV aspect ratio to 16:9, 4:3 Letter Box, or 4:3 Pan Scan. You can also adjust the display settings such as brightness, contrast, saturation, and hue.

### 6.2.3 Get the brief introduction

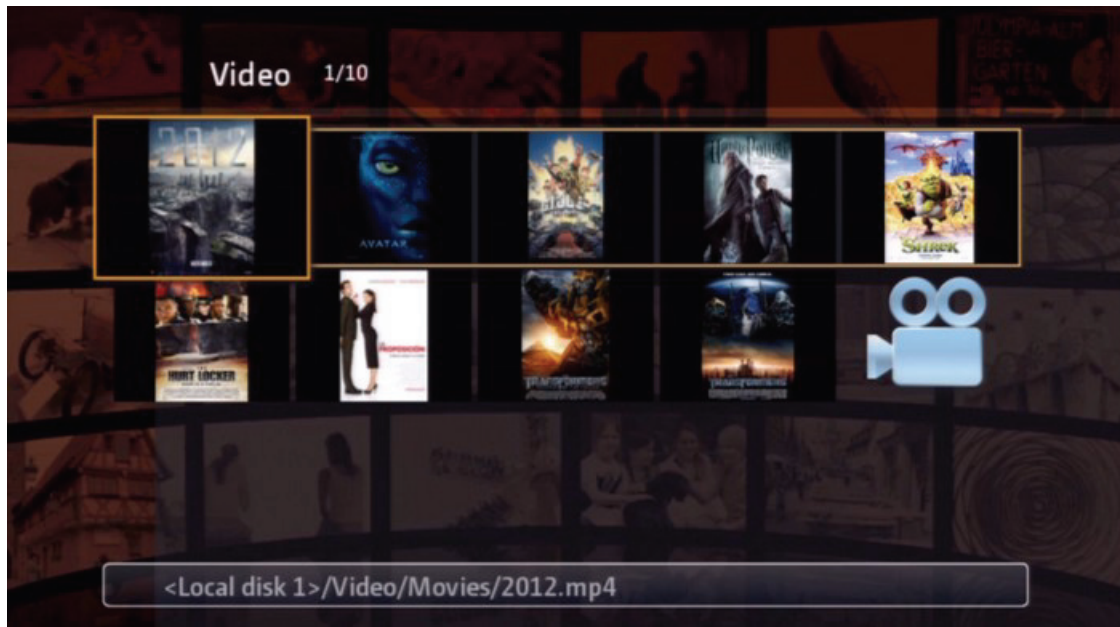
You can view or store movie covers and related information by selecting the “File attribute” and then “Get the brief introduction” on each movie file. Choose your desired movie title if multiple movie titles are listed.

Note that the NMP-1000P must be connected to the Internet for this function to work properly.

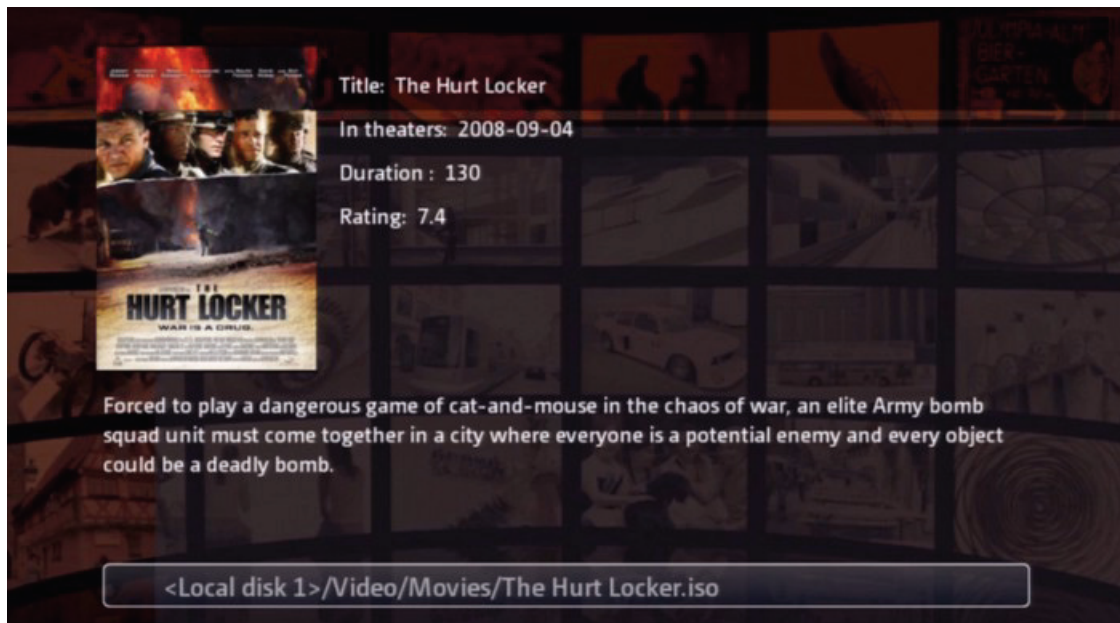




To browse the movies by movie covers, go to “Video”, and then navigate to the folder containing movies with downloaded cover art. Press “Options” and then select “File attribute”. Next, change the view mode from “List view” to “Thumbnail view”.



You can also view the movie information by pressing the “Info” button on the remote control.



## 6.3 Play Audio Files

You can use the remote control with the following options when playing an audio file.

- 1) Seek: Go to a specific time frame.
- 2) Play/Pause/Stop: Play, pause or stop the music file.
- 3) Fast forward/Fast rewind: Forward or rewind at the speed of x2, and x4.
- 4) Previous/Next: Go to the previous/next audio file.

Music Playlist: If you have music playlist that you want to use with your audio files, you must enable “Auto file categorization” or run “Manual file categorization” in order for the system to generate the index file. After the index is created, you can find the playlist files in the “Playlists” category.



## 6.4 Play Image Files

You can use the remote control for the following options when viewing the image files.

- 1) Zoom: Zoom in; view the image file by x2, x4, or x8.
- 2) Angle: Rotate the viewing angle by 90°, 180°, 270°.
- 3) Play/Pause/Stop: Play, pause or exit the slideshow.
- 4) Previous/Next: Go to the previous or next image file .
- 5) Info: Displays the photo's EXIF information.



When you are viewing an image file, the following specific features are available in the “Options” menu.

1. Delete: Delete the image.
2. Play mode: Play the slideshow by shuffle, repeat current file, or repeat all.
3. Slideshow timer: Set the display time of each image file of a slideshow.
4. Information: View the information of the image.
5. Lock/ Unlock: If you have logged in parental control, you can lock or unlock the image file.
6. Background music: Select the background music when viewing photos.

## 6.5 Play Online Media Contents

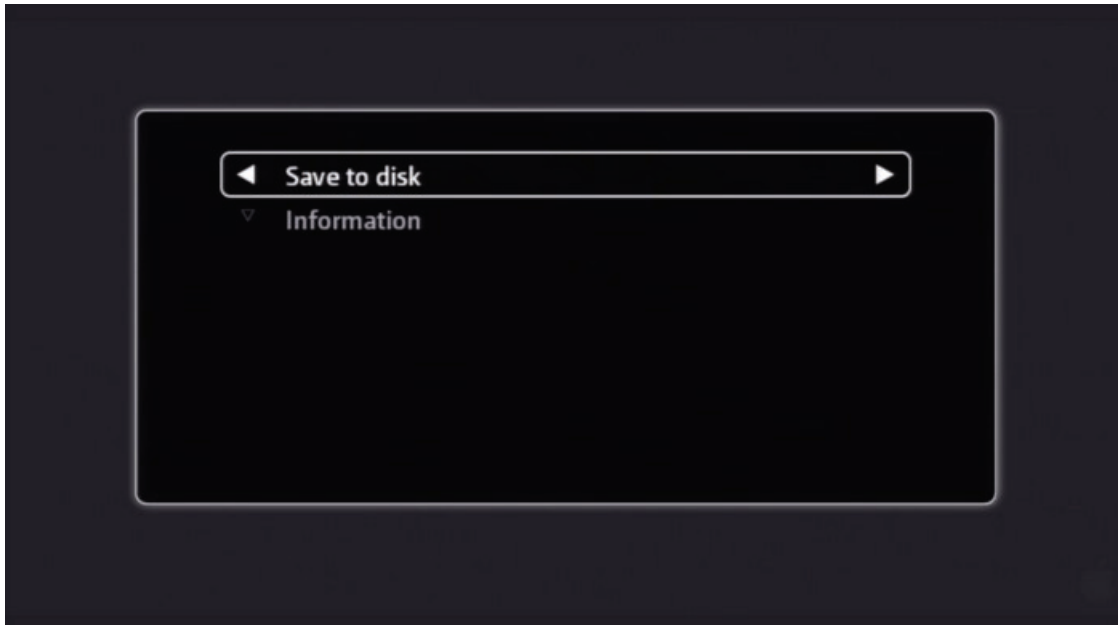
Note that the NMP-1000P must be connected to the Internet for these functions to work properly.

### 6.5.1 Apple movie trailers

NMP-1000P supports playing the latest Apple movie trailers. Go to “All media” or “Video” and select “Apple movie trailers”.

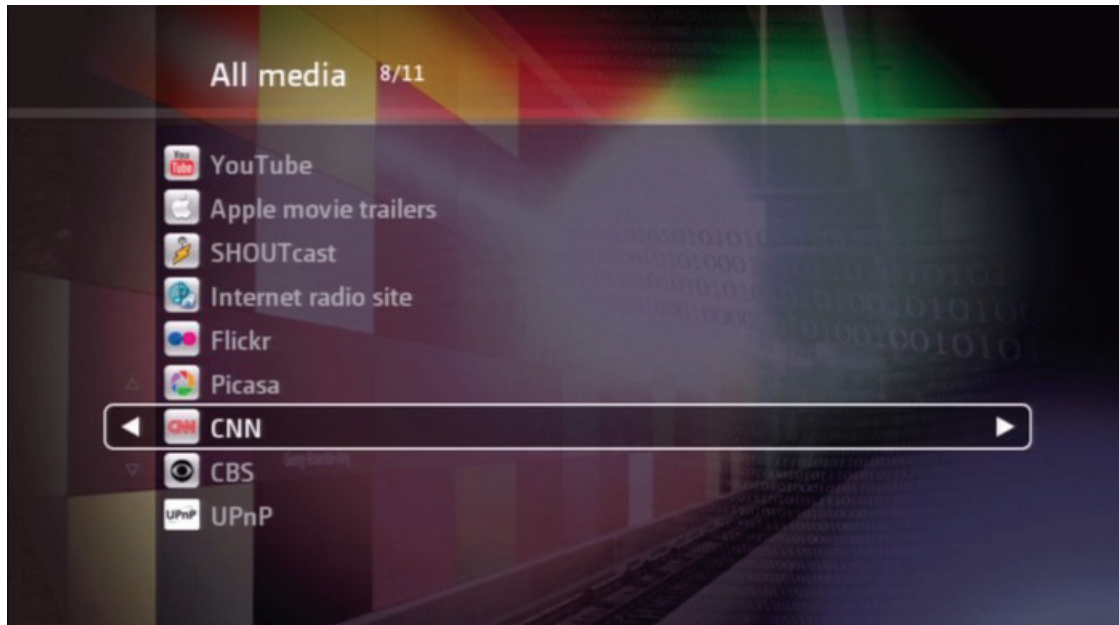


Select the movie trailer to play or highlight a movie trailer and press “Options”. You can select to save the trailer to the internal hard disk drive or view the information of the trailer. The downloaded trailers can be located in \\NMP IP\Download\Trailers



### 6.5.2 CBS/CNN

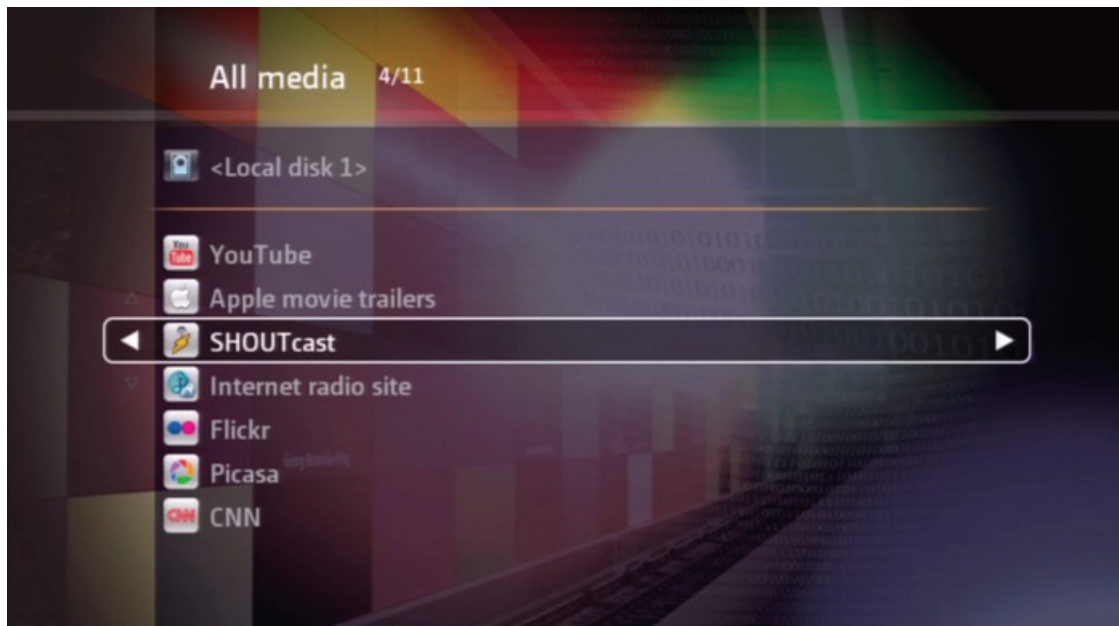
You can listen to and watch various Internet audio and video clips provided by CBS and CNN. You can also save the clips to the hard disk drive for viewing later.



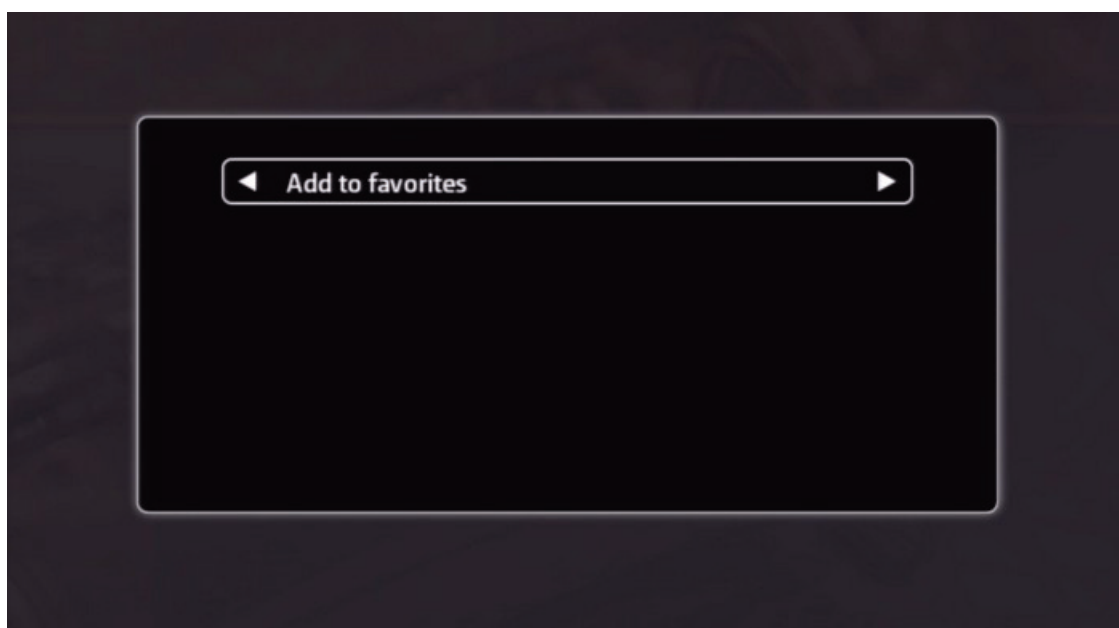
### 6.5.3 SHOUTcast

NMP-1000P provides quick access to worldwide popular radio stations from SHOUTcast for you to play them on your audio system.

Go to “All media” or “Music” and select “SHOUTcast”.



Browse the radio channels from SHOUTcast. Press “OK” to play the channel or press “Options” to add the radio channel to the favorites.



#### 6.5.4 Internet radio site

You can input your favorite Internet radio channels to NMP-1000P. Go to “All media” or “Music” and select “Internet radio site”.

Select “Add Internet radio site URL” and enter the URL of the Internet radio site. Press “OK” to listen to the radio.

To delete a radio channel, highlight the channel on the list. Press “Options” and select “Delete”.

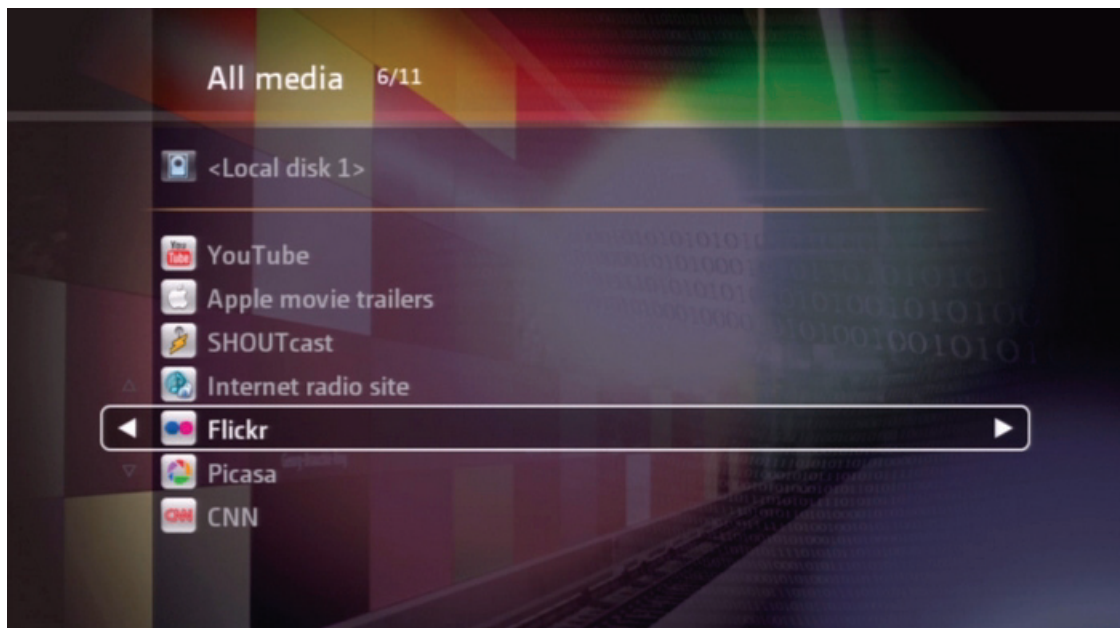




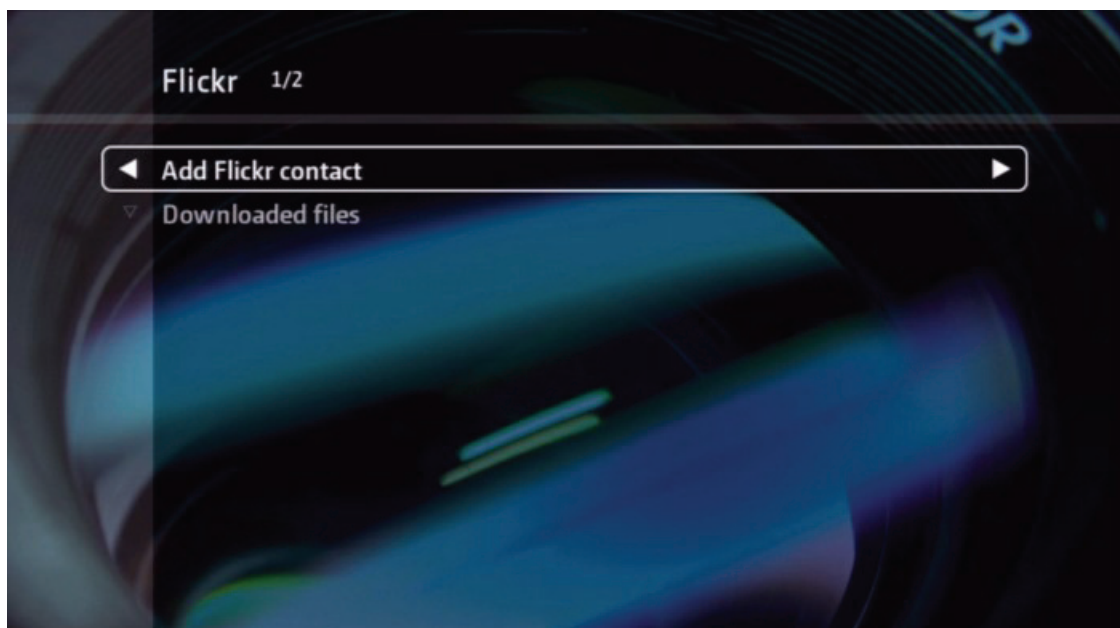
### 6.5.5 Flickr

NMP-1000P allows you to access your Flickr photos shared by your friends and family.

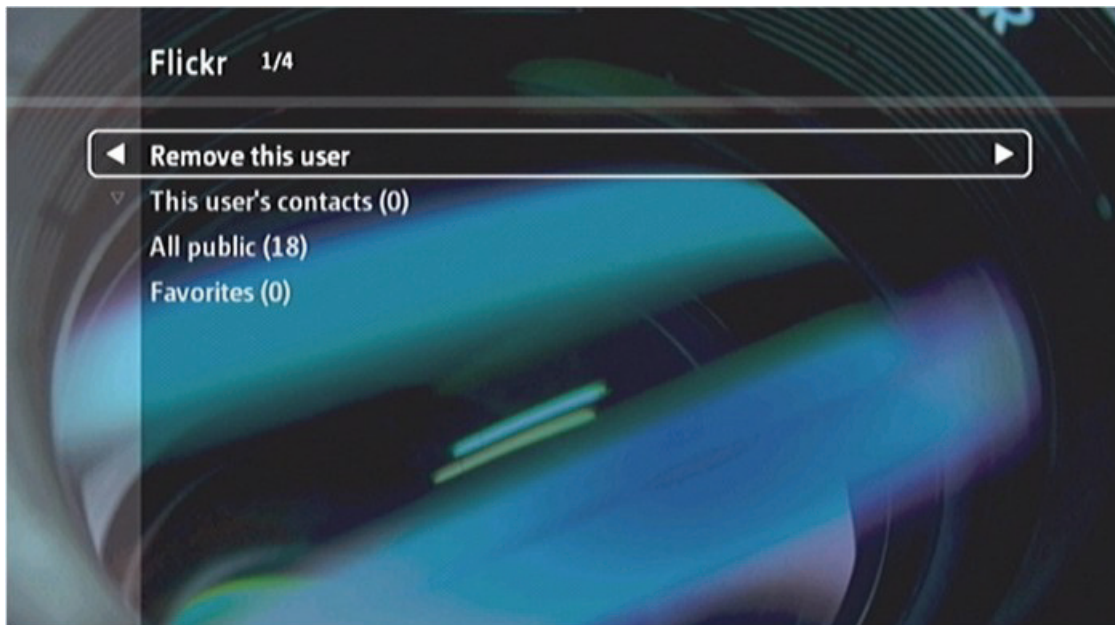
Go to “All media” or “Photos” and select “Flickr”.



Select “Add Flickr contact” and enter the Flickr contact name.



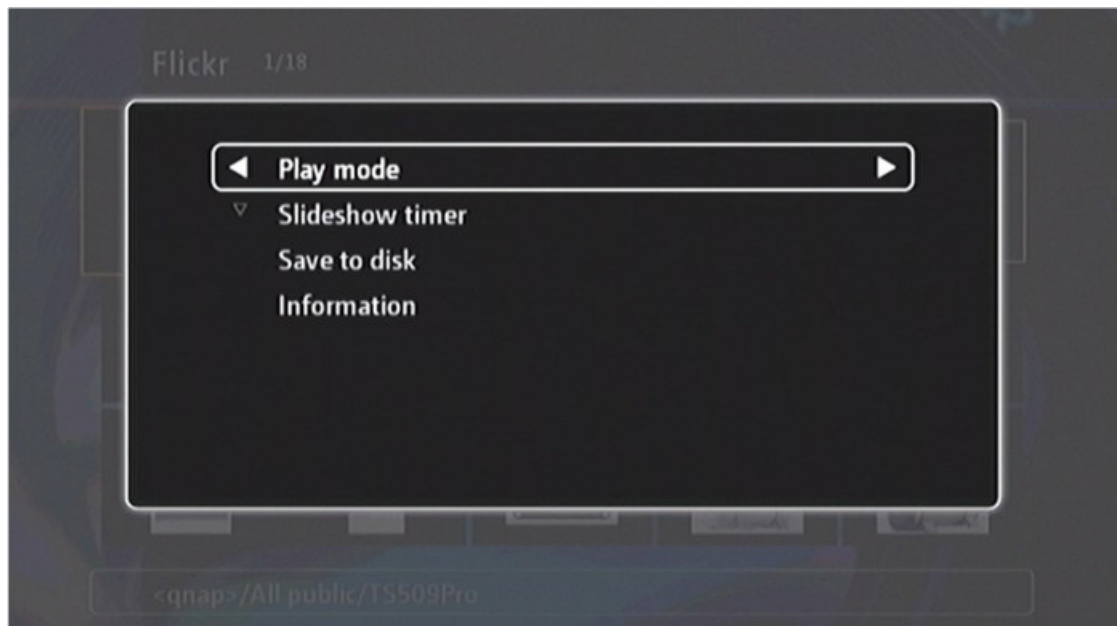
After adding a Flickr contact, press “OK” to view the shared albums/ photos, favorites, and contacts of the user. You can also select to remove the user from the Flickr contact list on NMP-1000P.





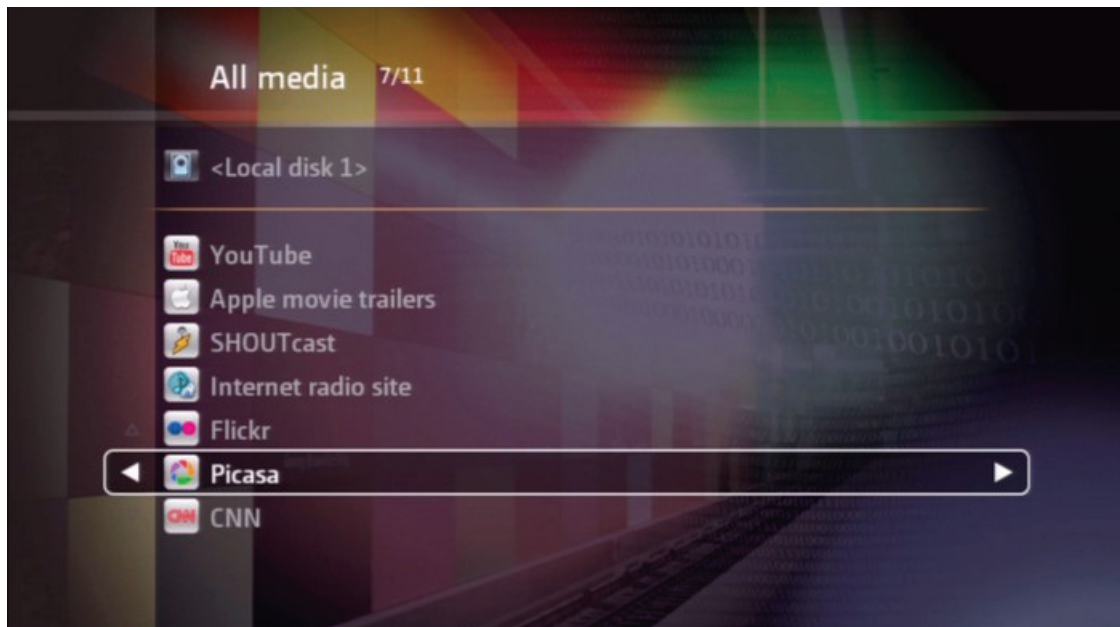
When viewing an album or photos from Flickr, press “Options” for the following features:

- Play mode: Select “Repeat” or “Shuffle” mode.
- Slideshow timer: Select to the number of seconds each photo will be shown in a slideshow.
- Save to disk: Save the Flickr photo to \\NMP IP\Download\Flickr.
- Information: View the information of the Flickr photo.

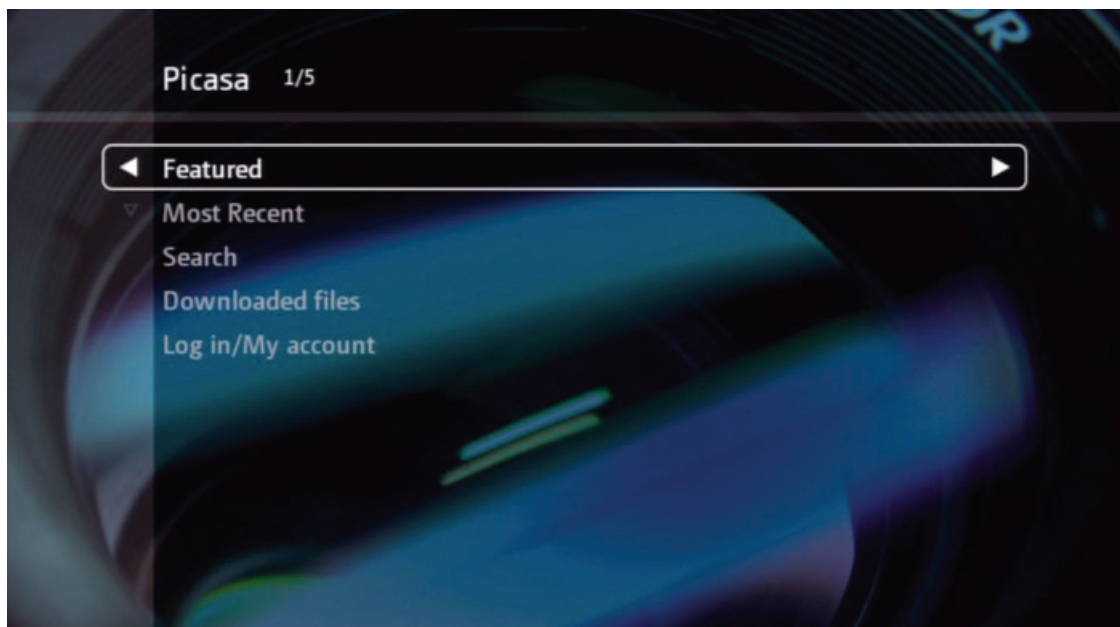


### 6.5.6 Picasa

NMP-1000P allows you to access your Picasa photos shared by your friends and family. Go to “All media” or “Photos” and select “Picasa”.



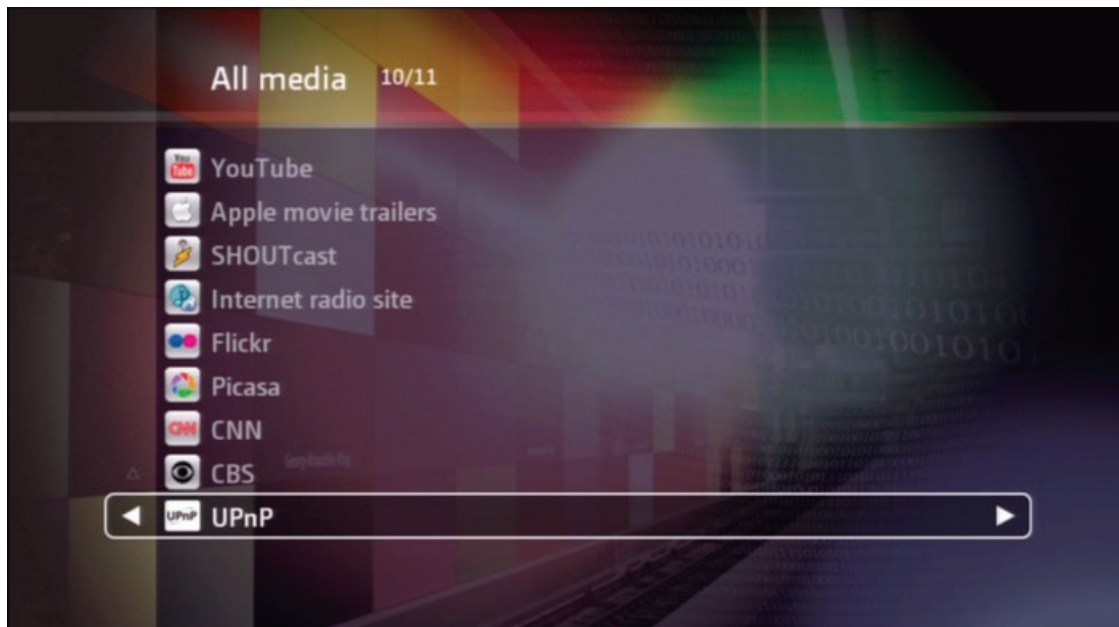
The operations of Picasa are similar to those of Flickr.



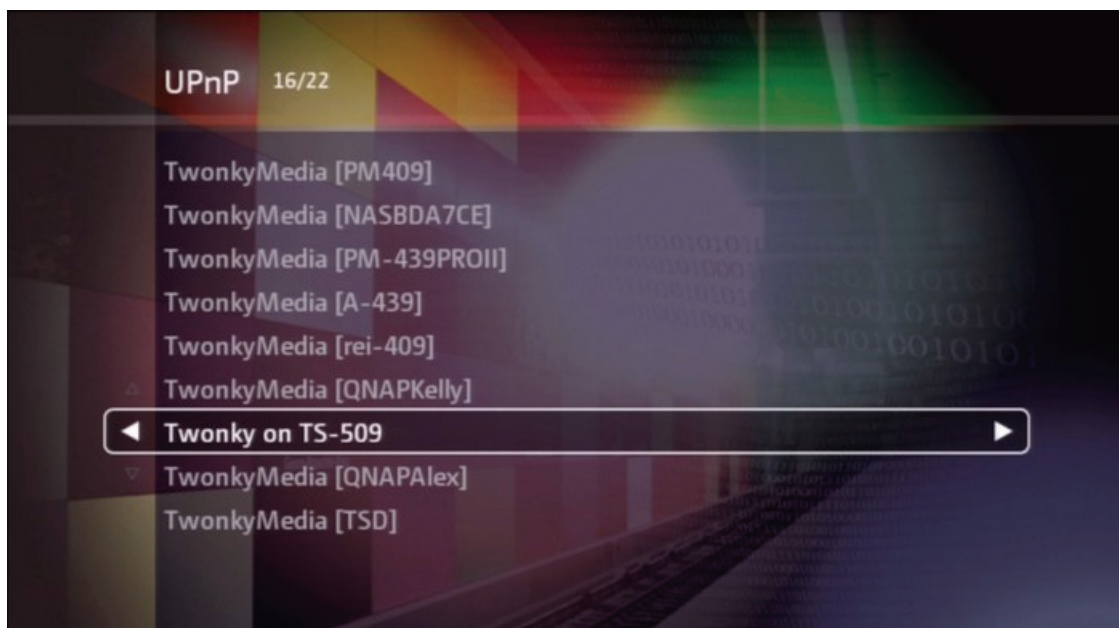


### 6.5.7 UPnP

NMP-1000P supports UPnP/ DLNA supported storage devices for online media playing over the local network. To use this function, go to “All media” and select “UPnP”.



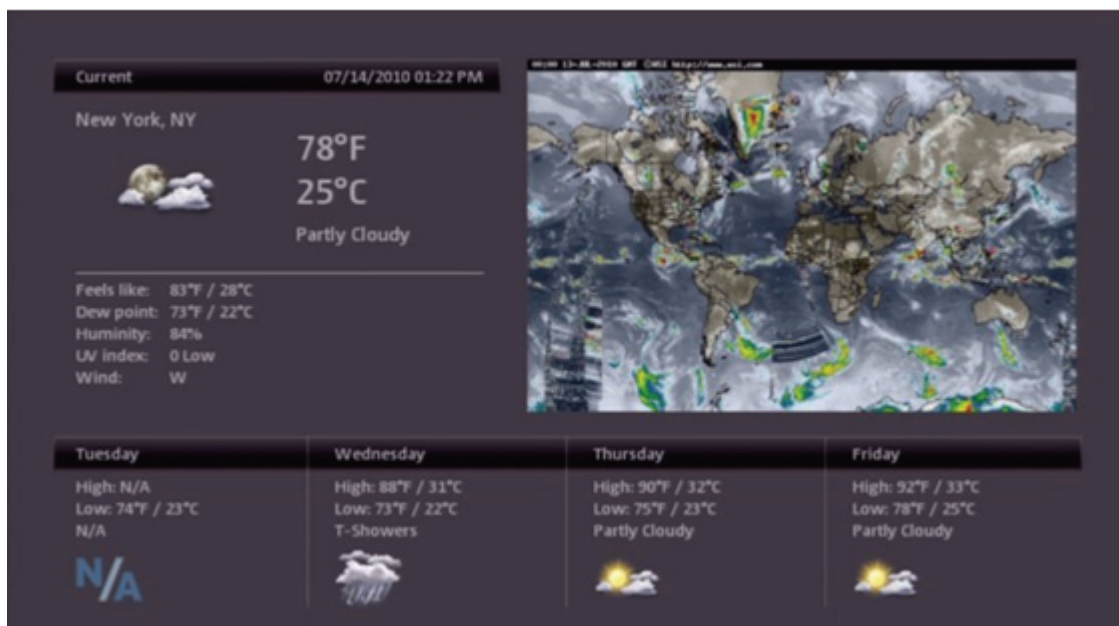
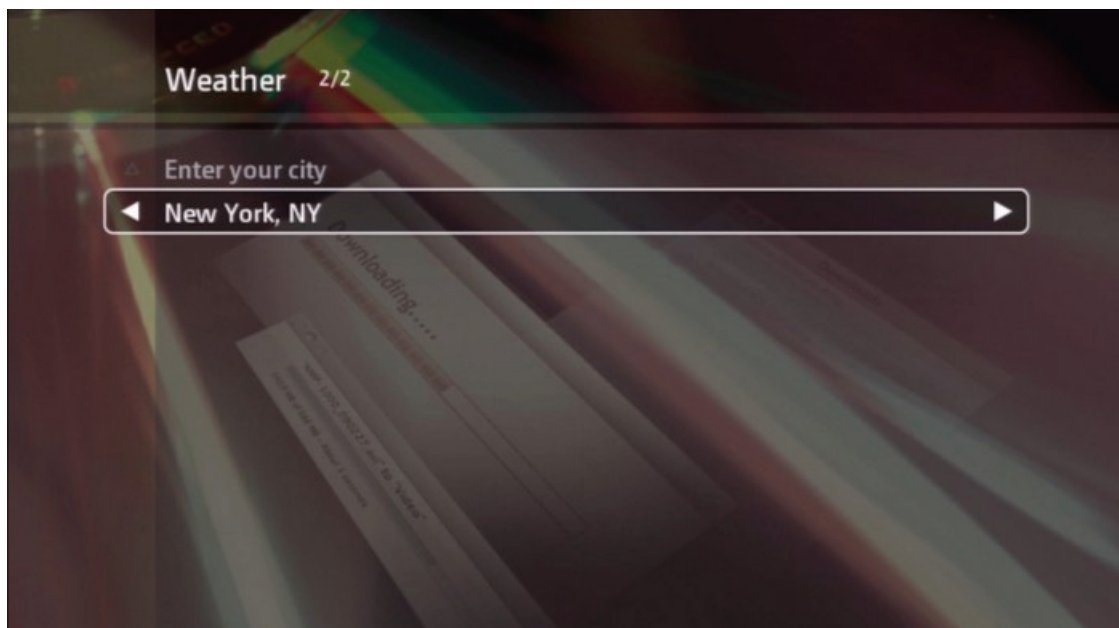
NMP-1000P searches for all the UPnP/ DLNA supported storage devices automatically. Select a device to connect to and browse the multimedia contents for playback.



## 6.6 Weather

You can connect NMP-1000P to the Internet and view the real-time weather information and the weather forecast of your location. To use this function, go to the home menu, select “Network” > “Weather”. Select your location to view the information. You can also add multiple cities for quick access to the weather information.

Note that the NMP-1000P must be connected to the Internet for this function to work properly.



## **7. BitTorrent Download**

NMP-1000P supports PC-less BitTorrent download. You can use the remote control or login the web-based interface (Download Station) to manage the download tasks. The Download Station supports remote management of the download tasks over the local network or the Internet.

Note that the NMP-1000P must be connected to the Internet for this function to work properly.

### **7.1 Finish/ Run/ Pause Lists**

You can see the status of your existing torrent files on the Finish/Run/Pause list. By selecting a task and pressing the “Options” key on the remote control, you can choose to resume, pause, or delete the BT download task depending on its activity.

### **7.2 Add New BT Task**

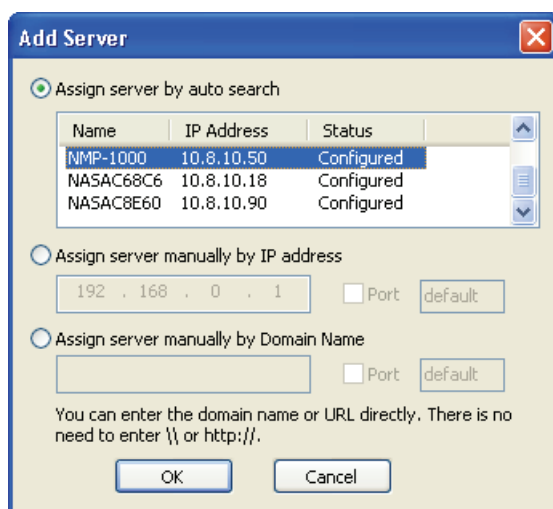
To add a BT download task, go to the home menu, select “Network” > “BT download” > “Add new task”. Select where the torrent file is located, the local disk or the remote disk. If you select the local disk, remember to copy the torrent file to NMP-1000P. Highlight the torrent file and press “OK”. You can check the download status on the “Run list”.



## 7.3 QGet Download Software

QNAP provides an exclusive download utility QGet for remote management of the download tasks on NMP-1000P.

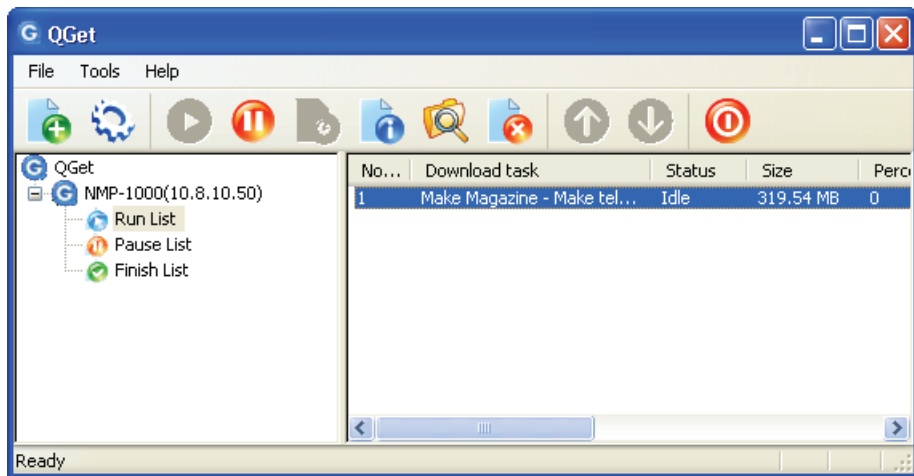
1. To use QGet, download the utility from the product CD-ROM.
2. After successful installation, use the “Add Server” function to add NMP-1000P. Note that NMP-1000P must be connected to the network.



3. Enter the user name and password.



4. When the management screen is shown, you can use QGet to manage the download tasks.





## 8. Extra Features in Different Media Modes

This section covers specific features that are available in different media modes.

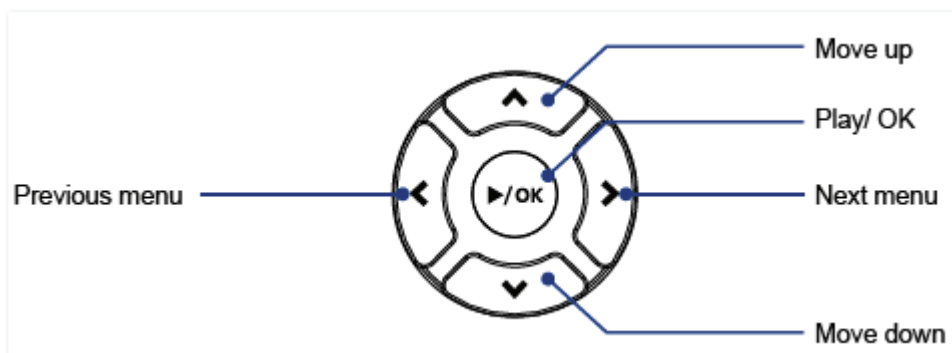
### 8.1 DVD Playback

When you are playing a DVD file, you can use the Audio/ Menu/ Subtitle/ Title keys to use the standard DVD navigation feature.



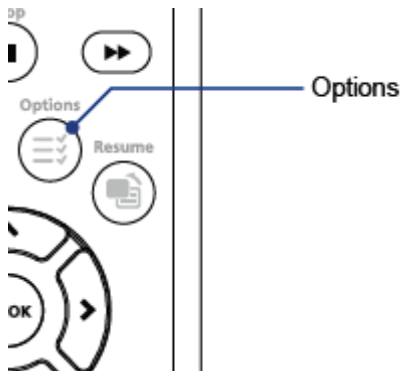
### 8.2 Page up/ down in File List Browsing

When you are browsing a long list of media files, instead of keep pressing the Move up/ Move down keys, you can use the Previous menu/Next menu keys to perform page up or down behavior.



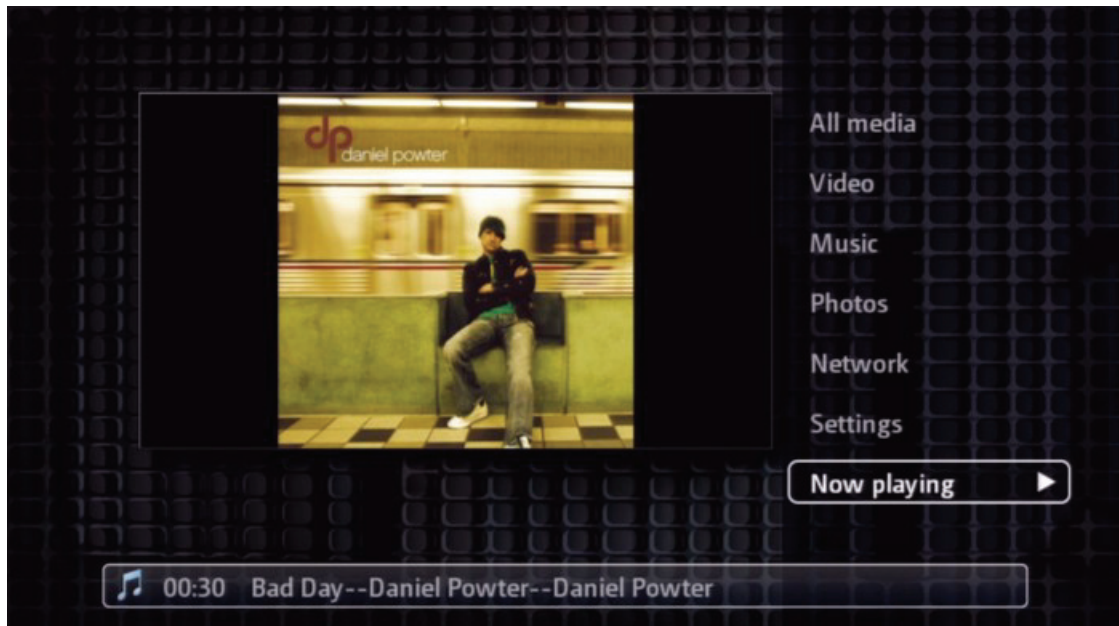
### 8.3 Folder/File Copy, Cut, Deletion, and Rename

You can copy, cut, delete, or rename a folder or file by highlighting the folder or file and using the “Options” key. Once you have copied a folder or file, you will see the “Paste” item on the “Options” menu. Simply go to a desired folder to paste the copied folder or file.



## 8.4 Now Playing

When you are playing a music file or have paused a video and return the Home menu, an option “Now Playing” will appear on the menu and the playback status will be shown at the bottom of the screen. Select “Now Playing” to return to the media playback screen.



## 9. NAS Mode

NMP-1000P supports NAS features for file sharing across Windows, Mac, and Linux OS, and other features such as FTP server, BT download, users and user group management, and network share management.

1. To use the NAS features of NMP-1000P, open a web browser (IE or Firefox) and enter the server IP.
2. Click “Administration” on the login page. Enter the administrator name and password.

Default login: admin
Password: admin



## 9.1 Quick Configuration

You can configure NMP-1000P in the Quick Configuration.

Step 1. Enter the server name.

– 1. Enter the server name.

Server Name :

Step 2. Change the administrator password or select to use the original password.

– 2. Change the administrator password.

Password :

Verify Password :

☒ Use the original password

---

**Note:** If you select "Use the original password", the administrator password will not be changed.

Step 3. Enter the date, time and select the time zone for the server. You can also synchronize the time with an NTP server (make sure NMP-1000P is connected to the Internet).

– 3. Enter the date, time and time zone for this server.

Time Zone : (GMT) Greenwich Mean Time : Dublin, Edinburgh, Lisbon, London ▼

Current date and time : 2010 / 8 / 11 AM 08 : 37 : 33

☐ Change the server's time and date as below:

Date: January ▼ , (mm dd, yyyy)

Time: : : AM ▼ (hh:mm:ss)

☒ Synchronize with an Internet time server automatically

Server: pool.ntp.org Test (Status: --)

← Back Next →

Step 4. Select the filename encoding.

– 4. Select the filename encoding setting for non-unicode O.S. or FTP applications.

Filename Encoding: English ▼

← Back Next →

Step 5. Enter the IP address, subnet mask and default gateway for the server.

– 5. Enter the IP address, subnet mask and default gateway for this server.

Network Type: Wired

☒ Obtain TCP/IP settings automatically via DHCP

☐ Use the following settings

IP Address: 169 . 254 . 100 . 100

Subnet Mask: 255 . 255 . 0 . 0

Default Gateway: 169 . 254 . 100 . 100

Primary DNS Server: 0 . 0 . 0 .

Secondary DNS Server: 0 . 0 . 0 .

---

**Note:** If you don't need a default gateway for this server, please enter "0.0.0.0".

← Back      → Next

Step 6. Select to initialize the hard disk or not. If your hard disk has been formatted, select not to initialize the hard disk.

– 6. Initialize the disk volume on this server.

**Disk information**

Model: ST3640323AS

Total size: 610480 MB

☒ Initialize the hard disk now

☐ Do not initialize the hard disk

---

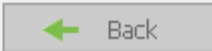
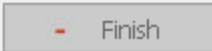
**Note:** If you choose to Initialize the hard disk, all data on the disk will be deleted.

← Back      → Next

Step 7. The basic system settings are shown. Click “Finish” to begin the system installation. After the system is initialized, click “Close” to exit.

System is not initialized.

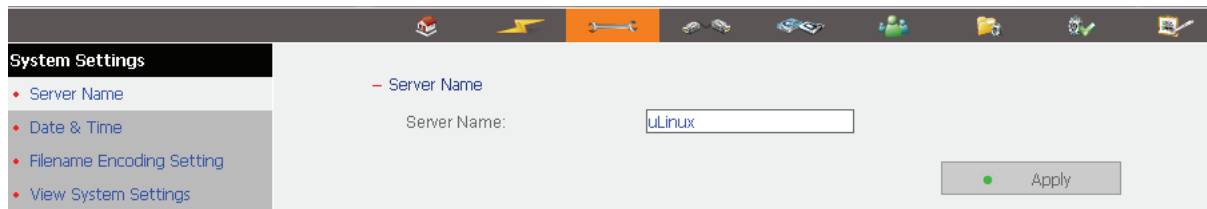
Server Name :	uLinux
Time Zone :	(GMT) Greenwich Mean Time : Dublin, Edinburgh, Lisbon, London
Time Setting:	2010 / 08 / 11 AM 08 : 38 : 26
Filename Encoding:	English
Network :	DHCP
Disk :	Do not initialize

 Back  Finish



## 9.2 System Settings

Configure the server name, date & time, and file name encoding in the System Settings.



The screenshot shows the 'System Settings' window with a sidebar on the left containing links: 'Server Name', 'Date & Time', 'Filename Encoding Setting', and 'View System Settings'. The main area is titled '- Server Name' and contains a 'Server Name:' label followed by a text input field containing 'uLinux'. An 'Apply' button with a green status indicator is at the bottom right.

### 9.2.1 Server Name

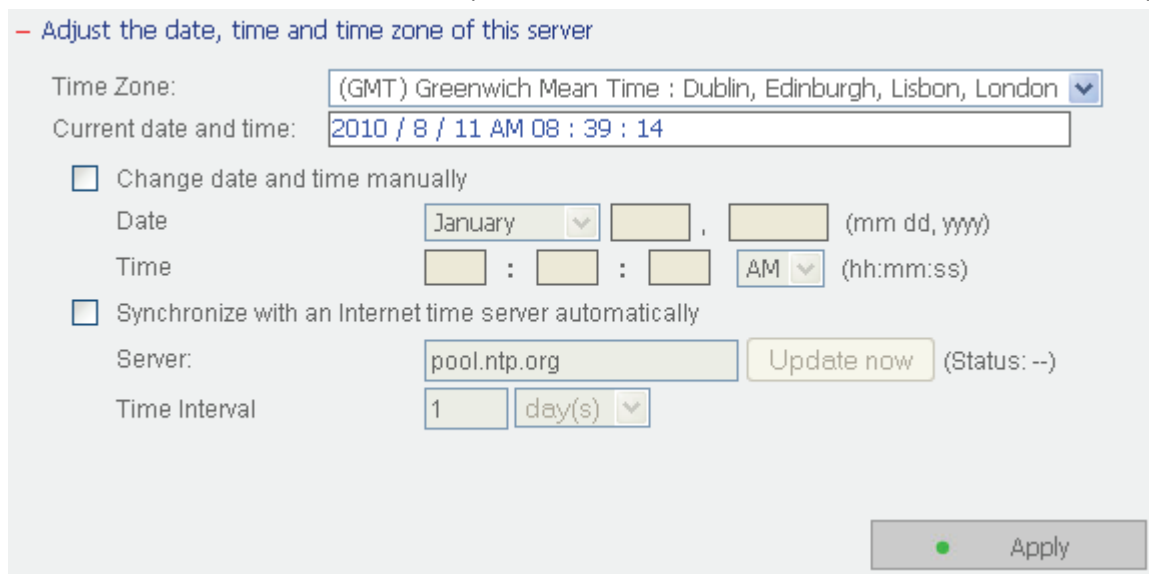
Enter the server name of NMP-1000P. The server name supports maximum 14 characters, which can be a combination of alphabets, numbers, and hyphen (-). The server does not accept spaces, period (.), or other symbols.



This is a close-up of the 'Server Name' configuration section. It shows the '- Server Name' header, the 'Server Name:' label, and the text input field containing 'uLinux'. The 'Apply' button is visible at the bottom right.

### 9.2.2 Date & Time

Set the date, time, and time zone according to your location. You can also synchronize the server time with an NTP server (make sure NMP-1000P is connected to the Internet).



The screenshot shows the 'Adjust the date, time and time zone of this server' configuration window. It includes a 'Time Zone:' dropdown menu set to '(GMT) Greenwich Mean Time : Dublin, Edinburgh, Lisbon, London'. Below it is a 'Current date and time:' text field showing '2010 / 8 / 11 AM 08 : 39 : 14'. There are two main options: 'Change date and time manually' (unchecked) and 'Synchronize with an Internet time server automatically' (unchecked). Under the manual option, there are fields for 'Date' (January, , ) and 'Time' ( : : AM). Under the automatic option, there is a 'Server:' text field with 'pool.ntp.org', an 'Update now' button, and a '(Status: --)' label. A 'Time Interval' section shows '1' and a 'day(s)' dropdown. An 'Apply' button with a green status indicator is at the bottom right.

### 9.2.3 Filename Encoding

Select the language NMP-1000P uses to display files and directories.

– Filename Encoding Setting

Filename Encoding:

 Apply

### 9.2.4 View System Settings

You can view all current system settings on this page.

– View System Settings

Server Name	
Server Name	uLinux

Date & Time	
Date	August 11, 2010
Time	8:39:38 AM
Time Zone	(GMT) Greenwich Mean Time : Dublin, Edinburgh, Lisbon, London

Filename Encoding	
Code Page	English (437)

System Information	
Version	1.1.0 Build 0806P
S/N	N/A

## 9.3 Network Settings

### 9.3.1 TCP/ IP Configuration

You can configure the IP address of NMP-1000P when using wired network connection. When using wireless network connection, this feature is disabled. NMP-1000P uses DHCP by default.

The screenshot shows the 'Network Settings' window with a sidebar on the left containing a list of network-related options: TCP/IP Configuration, Microsoft Networking, Apple Networking, NFS Service, Web File Manager, FTP Service, Download Station, DDNS Service, System Port Management, and View Network Settings. The main area is titled 'TCP/IP Configuration' and shows 'Network Type' set to 'Wired'. Two radio buttons are present: 'Obtain IP address settings automatically via DHCP' (which is selected) and 'Use static IP address'. Below these, there are input fields for 'Fixed IP Address' (169.254.100.100), 'Subnet Mask' (255.255.0.0), 'Default Gateway' (169.254.100.100), 'Primary DNS Server' (0.0.0.0), and 'Secondary DNS Server' (0.0.0.0). An 'Apply' button is at the bottom right.

### 9.3.2 Microsoft Networking

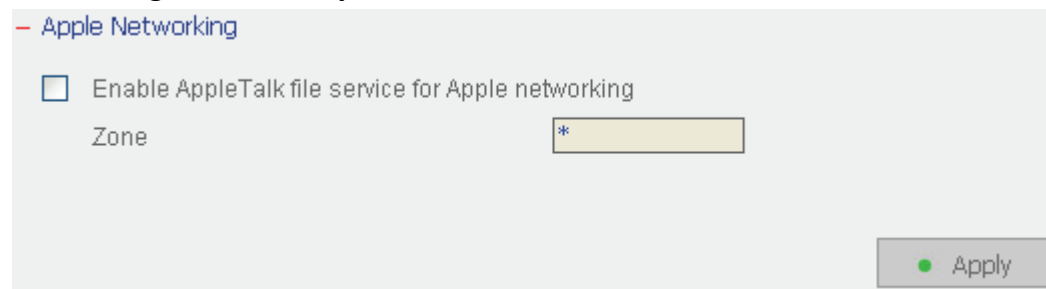
If you are using Windows OS, enable this service to allow access to the network share folders by Microsoft networking.

The screenshot shows the 'Microsoft Networking' configuration window. It has a checkbox labeled 'Enable file service for Microsoft networking' which is checked. Below this are two text input fields: 'Server Description' with the value 'NAS Server' and 'Workgroup' with the value 'NAS'. There are two more unchecked checkboxes: 'Enable WINS server' and 'Use the specified WINS server'. Below the second checkbox is a 'WINS server IP address' field with four input boxes, each containing a '0'. At the bottom right is an 'Apply' button.

### 9.3.3 Apple Networking

To access NMP-1000P from Mac OS, enable this option. If your AppleTalk network uses extended networks and is assigned with multiple zones, assign a zone name to NMP-1000P. If you do not want to assign a network zone, enter an asterisk (\*) to use the default setting.

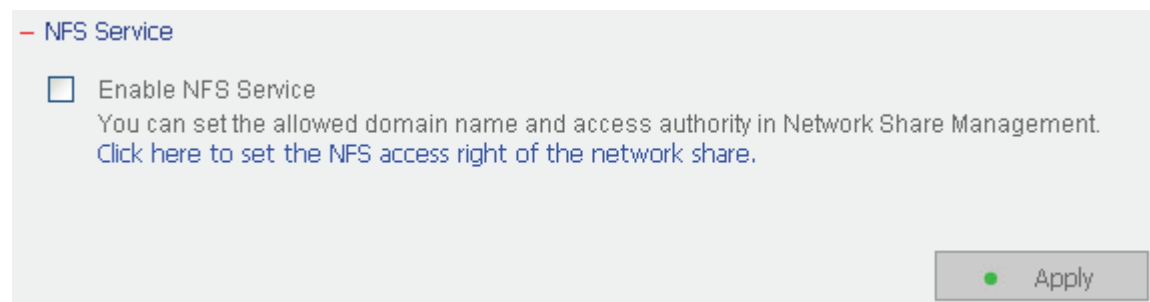
**This setting is disabled by default.**



The screenshot shows a configuration window titled "Apple Networking". It contains a checkbox labeled "Enable AppleTalk file service for Apple networking" which is currently unchecked. Below the checkbox is a text field labeled "Zone" containing an asterisk (\*). At the bottom right of the window is a button labeled "Apply" with a green dot icon.

### 9.3.4 NFS Service

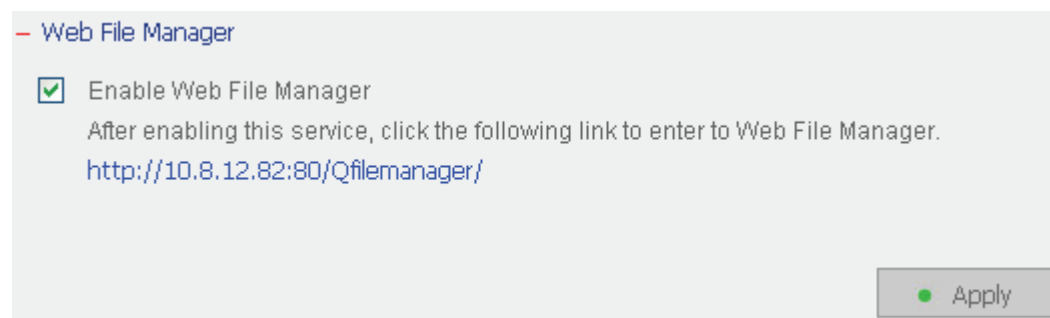
To access NMP-1000P from Linux, enable this option.



The screenshot shows a configuration window titled "NFS Service". It contains a checkbox labeled "Enable NFS Service" which is currently unchecked. Below the checkbox is a text area containing the text: "You can set the allowed domain name and access authority in Network Share Management. Click here to set the NFS access right of the network share." At the bottom right of the window is a button labeled "Apply" with a green dot icon.

### 9.3.5 Web File Manager

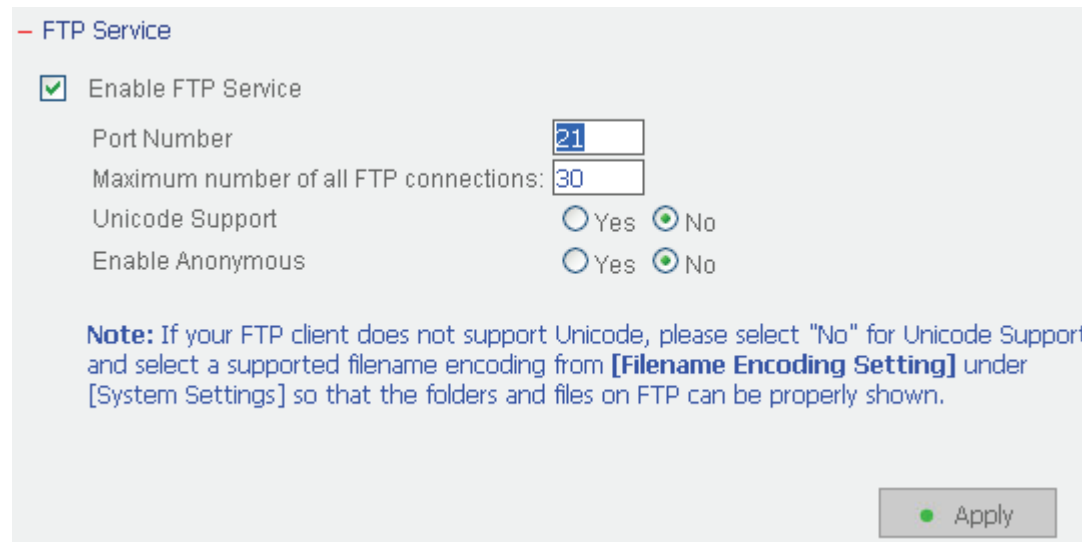
To access files on NMP-1000P by the web browser, enable Web File Manager. If NMP-1000P is connected to the Internet and uses a valid IP address, you can access files on the server by the web browser from LAN or WAN. For more information, see Section 10.



The screenshot shows a configuration window titled "Web File Manager". It contains a checkbox labeled "Enable Web File Manager" which is currently checked. Below the checkbox is a text area containing the text: "After enabling this service, click the following link to enter to Web File Manager." followed by the URL <http://10.8.12.82:80/Qfilemanager/>. At the bottom right of the window is a button labeled "Apply" with a green dot icon.

### 9.3.6 FTP Service

NMP-1000P supports FTP service. You can define the port number for the service and maximum number of users connected to the FTP at the same time.

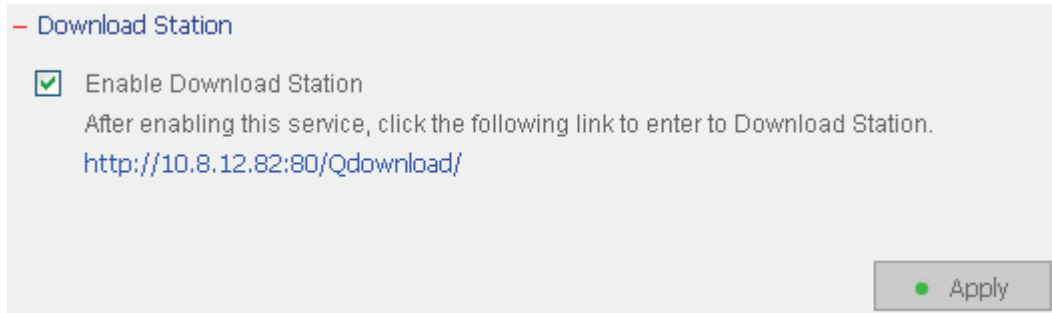


The screenshot shows the 'FTP Service' configuration window. It has a title bar with a minus sign and the text 'FTP Service'. Inside, there is a checked checkbox for 'Enable FTP Service'. Below it are two input fields: 'Port Number' with the value '21' and 'Maximum number of all FTP connections:' with the value '30'. There are two radio button options: 'Unicode Support' with 'Yes' and 'No' (where 'No' is selected) and 'Enable Anonymous' with 'Yes' and 'No' (where 'No' is selected). A blue note at the bottom states: 'Note: If your FTP client does not support Unicode, please select "No" for Unicode Support and select a supported filename encoding from [Filename Encoding Setting] under [System Settings] so that the folders and files on FTP can be properly shown.' An 'Apply' button is at the bottom right.

- **Unicode Support**  
Select to enable or disable Unicode Support. The default setting is No. Since most FTP clients do not support Unicode currently, it is recommended that you disable Unicode support here and select the language the same as your OS in “System Settings—Encoding Setting” page so that the folders and files on FTP can be properly shown. If your FTP client supports Unicode, make sure you have enabled Unicode support for both your client and NMP-1000P.
- **Enable Anonymous**  
You can enable anonymous login to allow the users to access the FTP server of NMP-1000P anonymously.

### 9.3.7 Download Station

NMP-1000P supports PC-less BitTorrent (BT) download. To use the download function, enable Download Station. Make sure a hard drive is installed on the device and the default network share "Download" exists.

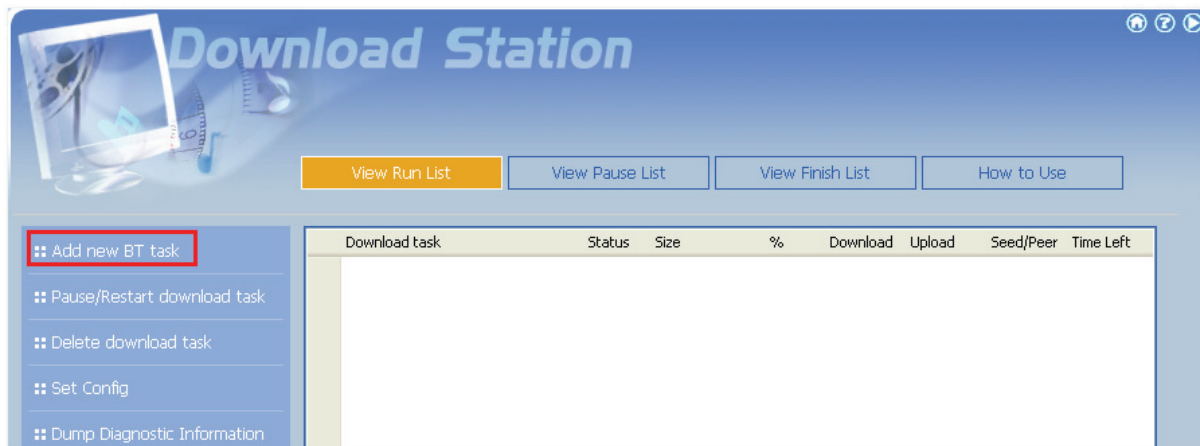


Please be warned against illegal downloading of copyrighted materials. The Download Station functionality is provided for downloading authorized files only. Downloading or distribution of unauthorized materials may result in severe civil and criminal penalty. Users are subject to the restrictions of the copyright laws and should accept all the consequences.

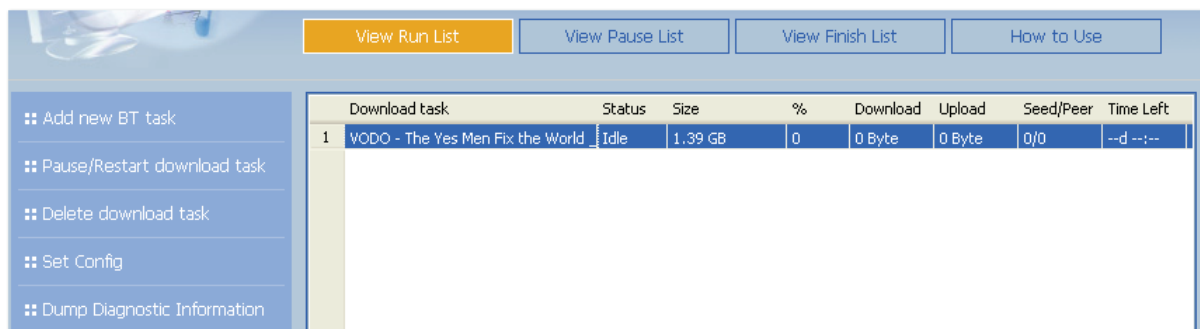
Open a web browser and enter <http://NMP-1000P IP/Qdownload> or click "Download Station" on the login page of NMP-1000P to access the Download Station.

## Add new BT task

1. Click “Add new BT task” on the left and upload a torrent file. You can download legal torrent files by searching on the Internet. There are websites that provide legally sharing torrents e.g. [www.legaltorrents.com](http://www.legaltorrents.com). Download the torrent files to your local disk and then upload them to NMP-1000P.



2. After uploading a download task, the task appears on View Run List.



3. Click “Set Config” and enter the maximum number of tasks you want to download at the same time (Default number: 3).

Enter the maximum download rate (0 means unlimited).

Enter the maximum upload rate (0 means unlimited).

Check UPnP NAT port forwarding to enable automatically port forwarding on UPnP supported gateway (default is not checked).

The screenshot shows a web-based download manager interface. At the top, there are four buttons: "View Run List" (highlighted in orange), "View Pause List", "View Finish List", and "How to Use". Below these is a sidebar with a list of actions: "Add new BT task", "Pause/Restart download task", "Delete download task", "Set Config" (highlighted with a red box), and "Dump Diagnostic Information". The main area displays a table of download tasks. The table has columns: "Download task", "Status", "Size", "%", "Download", "Upload", "Seed/Peer", and "Time Left". One task is listed: "VODO - The Yes Men Fix the World" with a status of "Idle" and a size of "1.39 GB". Below the table, a configuration window is open, allowing users to set various parameters: "Maximum number of downloads at the same time" (set to 3), "Maximum download rate (KB/s)" (set to 128), "Maximum upload rate (KB/s)" (set to 20), "Port for incoming peers" (set to 51413), "Sharing time after download task completes: (hr)" (set to 1), and a checkbox for "UPnP NAT port forwarding" which is currently unchecked. At the bottom of the configuration window are "Apply" and "Configuration description" buttons.

Download task	Status	Size	%	Download	Upload	Seed/Peer	Time Left
1 VODO - The Yes Men Fix the World	Idle	1.39 GB	0	0 Byte	0 Byte	0/0	--d --:--

Maximum number of downloads at the same time:

Maximum download rate (KB/s):   
(default value is 0, which means unlimited)

Maximum upload rate (KB/s):   
(default value is 0, which means unlimited)

Port for incoming peers:   
(default value is 51413)

Sharing time after download task completes: (hr)

☐ UPnP NAT port forwarding

**Note:** If the sharing time (larger than 0 hr) is set for a download task, the download task will be moved to Finish List after download completes and the sharing time ends.



4. To pause a running download task, select the task in View Run list and click “Pause/ Restart download task”. You can view the tasks that are paused or finished in View Pause List and View Finish List respectively. To restart a paused task, select the task in View Pause List and click “Pause/ Restart download task”.

⚙ Add new BT task

⏸ Pause/Restart download task


🗑 Delete download task

⚙ Set Config

📄 Dump Diagnostic Information

	Download task	Status	Size	%	Download	Upload	Seed/Peer	Time Left
1	VODO - The Yes Men Fix the World	Idle	1.39 GB	0	0 Byte	0 Byte	0/0	--d --:--

5. To delete a running, paused, or finished task, select the task and click “Delete download task”. You can select to remove the download task only and retain the downloaded files, or remove the task and downloaded files.

6. To logout Download Station, click  on the top right hand corner.
7. The downloaded files are saved in the network share “Download” of NMP-1000P.

## Dump Diagnostic Information

To view the diagnostic details of a download task, select a task on the list and click “Dump Diagnostic Information”.

:: Add new BT task :: Pause/Restart download task :: Delete download task :: Set Config :: Dump Diagnostic Information	Download task	Status	Size	%	Download	Upload	Seed/Peer	Time Left
	1 VODO - The Yes Men Fix the World _	Idle	1.39 GB	0	0 Byte	0 Byte	0/0	--d --:--

### Dump Diagnostic Information:

Download task: VODO - The Yes Men Fix the World \_HD\_  
Size: 1.39 GB  
Percent: 0  
Download Totals: 0 Byte  
Upload Total: 0 Byte  
Share Time: N/A  
Start Time: Wed Aug 11 05:20:35 2010

OK

The common reasons for slow BT download rate or download error are as follow:

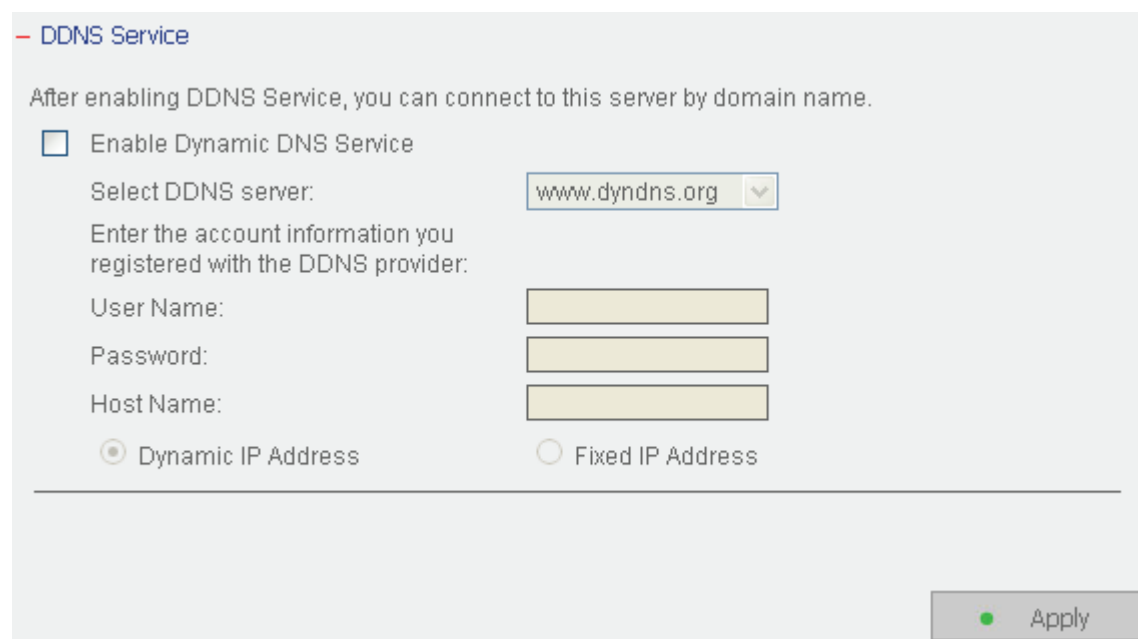
1. The torrent file has expired, the peers have stopped sharing this file, or there is error in the file.
2. NMP-1000P has configured to use fixed IP but DNS server is not configured, or DNS server fails.
3. Set the maximum number of simultaneous downloads as 3-5 for the best download rate.
4. NMP-1000P is located behind NAT router. The port settings have led to slow BT download rate or no response. You may try the following means to solve the problem:
  - a. Open the BitTorrent port range on NAT router manually. Forward these ports to the LAN IP of NMP-1000P.
  - b. The new NMP-1000P firmware supports UPnP NAT port forwarding. If your NAT router supports UPnP, enable this function on the NAT. Then enable UPnP NAT port forwarding of NMP-1000P. The BT download rate should be enhanced.

### 9.3.8 DDNS Service

You can enable this option to allow access to the server by a domain name.

Before using the DDNS service, please register a host name for NMP-1000P from the DDNS provider\*. NMP-1000P supports the DDNS providers: members.dyndns.org, update.ods.org, members.dhs.org, www.dyns.cx, www.3322.org.

\* For the information of DDNS service registration, please refer to the website of the DDNS providers.



— DDNS Service

After enabling DDNS Service, you can connect to this server by domain name.

☐ Enable Dynamic DNS Service

Select DDNS server:

Enter the account information you registered with the DDNS provider:

User Name:

Password:

Host Name:

☒ Dynamic IP Address ☐ Fixed IP Address

### 9.3.9 System Port Management

You can assign a protocol for the system management of NMP-1000P. The default port is 80. The system will restart after clicking “Apply”.



— System Port Management

You can change the system service port.

Port

### 9.3.10 View Network Settings

This page shows the current network settings and status of NMP-1000P.

[View Network Settings](#)

Network

Network File Services

**LAN Configuration**

Network Type	Wired
Connection Type	DHCP
IP Address	10.8.12.82
Subnet Mask	255.255.254.0
Default Gateway	10.8.12.1
MAC Address	00:08:9B:C4:DA:B1
Connection Status	Ready

[Close](#)

- View Network Settings

Network	Network File Services
<b>Microsoft Networking</b>	
Enabled	Yes
Server Type	Standalone Server
Workgroup	NAS
WINS server Enabled	No
Domain Master Enabled	No
<b>Apple Networking</b>	
Enabled	No
Apple Zone Name	*
<b>Unix/Linux NFS</b>	
Enabled	No
<b>Web File Manager</b>	
Enabled	Yes
<b>FTP Service</b>	
Enabled	Yes
Port Number	21
Max Connections	30
<b>Download Station</b>	
Enabled	Yes
<b>DDNS Service</b>	
Enabled	No
<b>System Port Management</b>	
Port Number	80

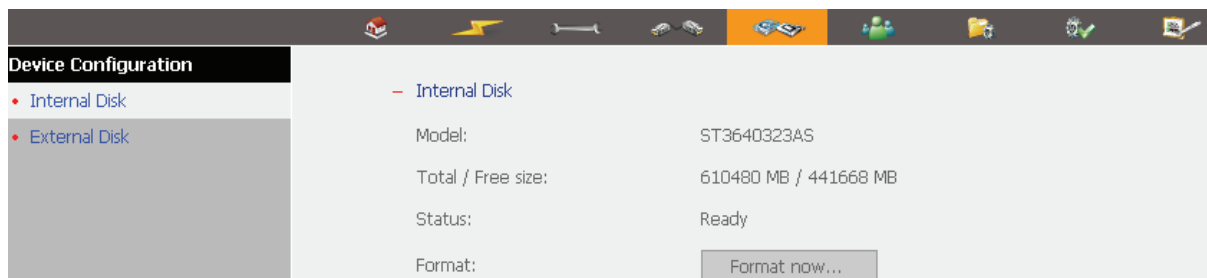
- Close

## 9.4 Device Configuration

### 9.4.1 Internal Disk

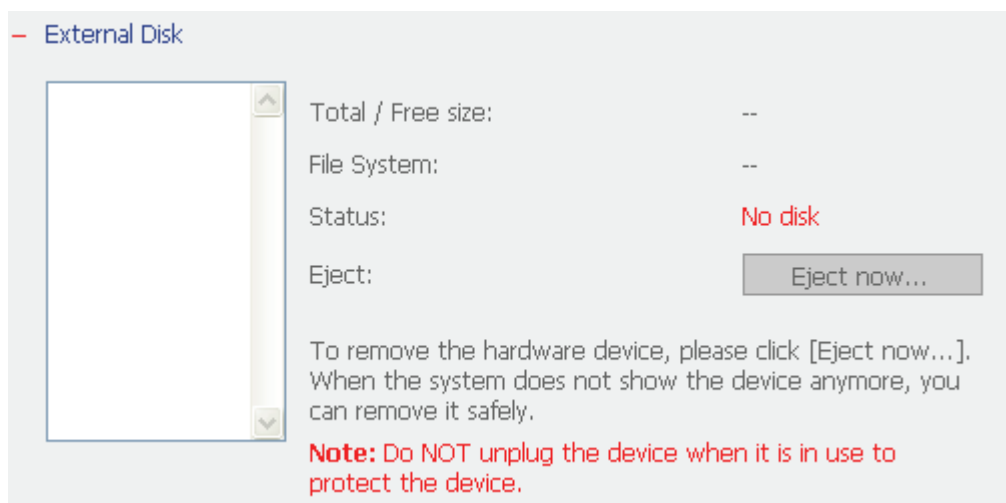
This page shows the model, size and current status of the hard drive installed on NMP-1000P. You can format the hard disk on this page. When the hard drive is formatted, NMP-1000P creates the following default share folders:

- ✓ Download: Network share for Download Station
- ✓ Music: Default share for the music files
- ✓ Photo: Default share for the image files (photos)
- ✓ Video: Default share for the videos



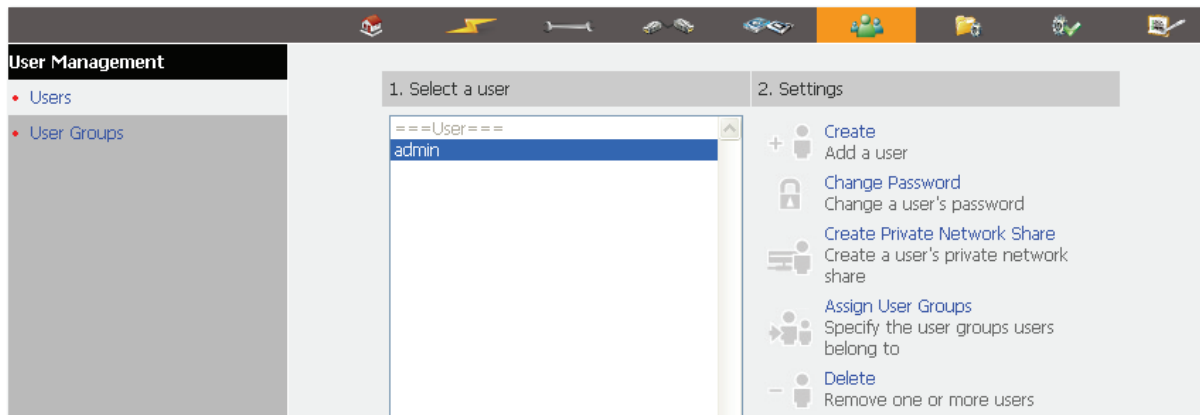
### 9.4.2 External Disk

NMP-1000P supports both USB and eSATA disk for direct playback of the multimedia files in the external device. You can check the device details on the web interface.



## 9.5 User Management

You can create multiple users and user groups on NMP-1000P for file sharing.



### 9.5.1 Users

The following users are created by default:

- **admin**  
This is the administrator account which has full system access right. This account cannot be deleted.
- **guest**  
This is a built-in user and will not be displayed on the User Management page. A guest does not belong to any user group. The login password for guest is **guest**.
- **anonymous**  
This is a built-in user and will not be displayed on the User Management page. When you connect to the server by FTP service, you can use this name to login as a guest.



**128 users can be created at maximum** (including system default users). You can create a new user according to your needs. The following information is required to create a new user:

✓ **User name**

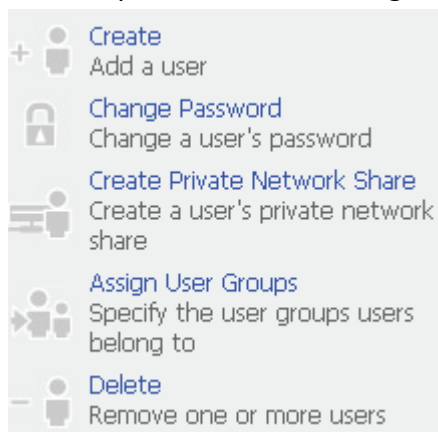
The user name should be less than 32 characters. It is case-insensitive and supports double-byte characters, such as Chinese, Japanese, and Korean. The user name cannot contain the following characters

" / \ [ ] : ; | = , + \* ? < > ` ' or begin with - # @

✓ **Password**

The password is case-sensitive and can be 16 characters long at maximum. It is recommended to use a password of at least 6 characters.

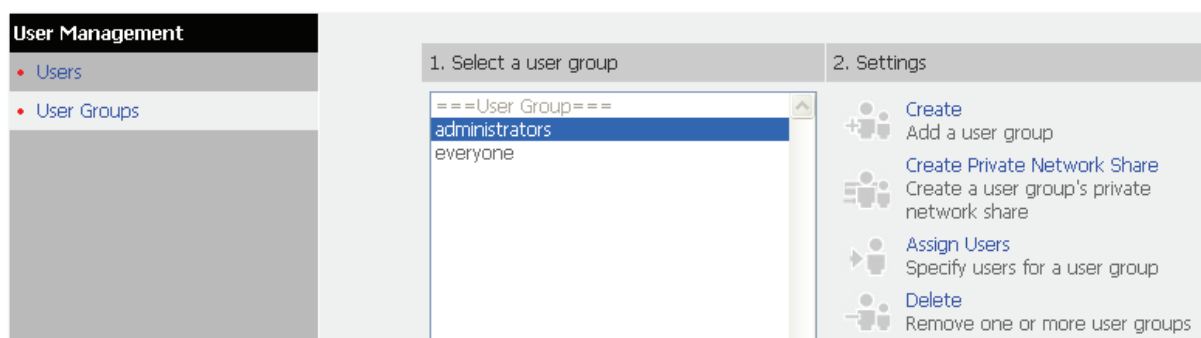
You can perform the following actions for user management:



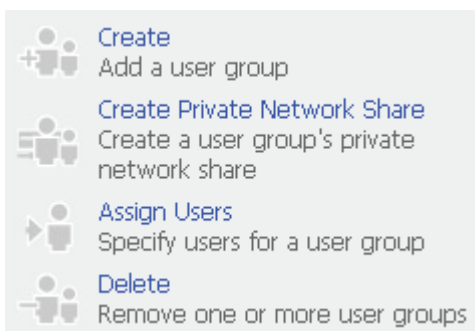
## 9.5.2 User Groups

The user group is a collection of users with the same access right to the network shares. NMP-1000P has created the following user groups by default:

- **administrators**  
All members in this group have administration right. You cannot delete this group.
- **everyone**  
All registered users belong to everyone group. You cannot delete this group.



You can manage user groups with the following options:

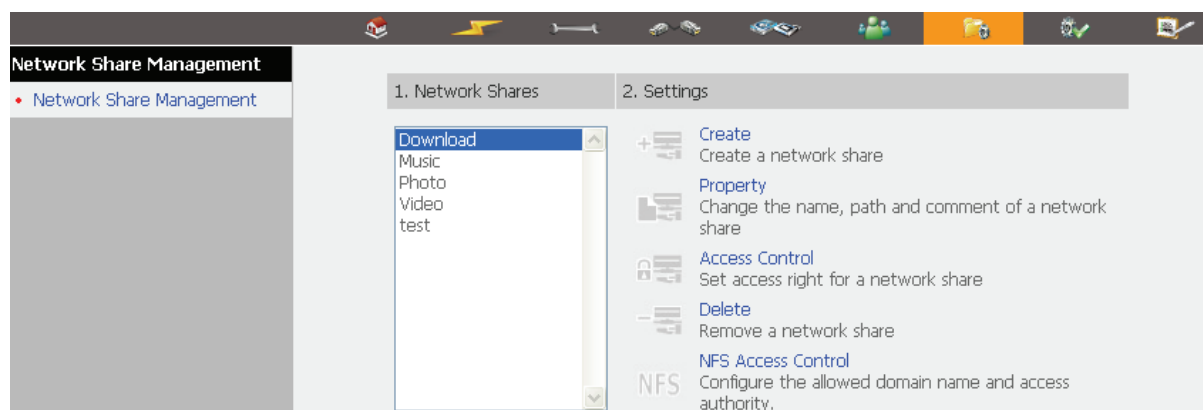


**32 groups can be created at maximum.** A group name must not exceed 256 characters. It is case-insensitive and supports double-byte characters, such as Chinese, Japanese, and Korean. The group name cannot contain the following characters:

" / \ [ ] : ; | = , + \* ? < > ` ' .

## 9.6 Network Share Management

You can create network share folders on NMP-1000P and assign different file access rights to the users or the user groups.



### 9.6.1 Create

Up to 128 network shares can be created on NMP-1000P (including the default network shares). To create a network share, enter the following information:

- ✓ **Network share name**  
The length of the network share name cannot exceed 32 single-byte characters or 10 double-byte characters, and cannot contain the following characters:  
". + = / \ : | \* ? < > ; [ ] %"
- ✓ **Hide network drive**  
Select to show or hide the network in My Network Places. Note that the drive can still be shown by entering the directory manually in My Network Places.
- ✓ **Path**  
All data is stored under the assigned path onto the disk volume. You can select "Specify path automatically" or assign a path manually. The path cannot exceed 256 characters and cannot contain the characters below:  
". + = / \ : | \* ? < > ; [ ] %"
- ✓ **Comment**  
Enter a brief description for the share folder. The comment must be less than 128 characters.

**Create**

Network Share Name

Hide network drive ☐ Yes ☒ No (Hide this network drive in My Network Places. However, the drive can still be shown by entering the directory manually in My Network Places.)

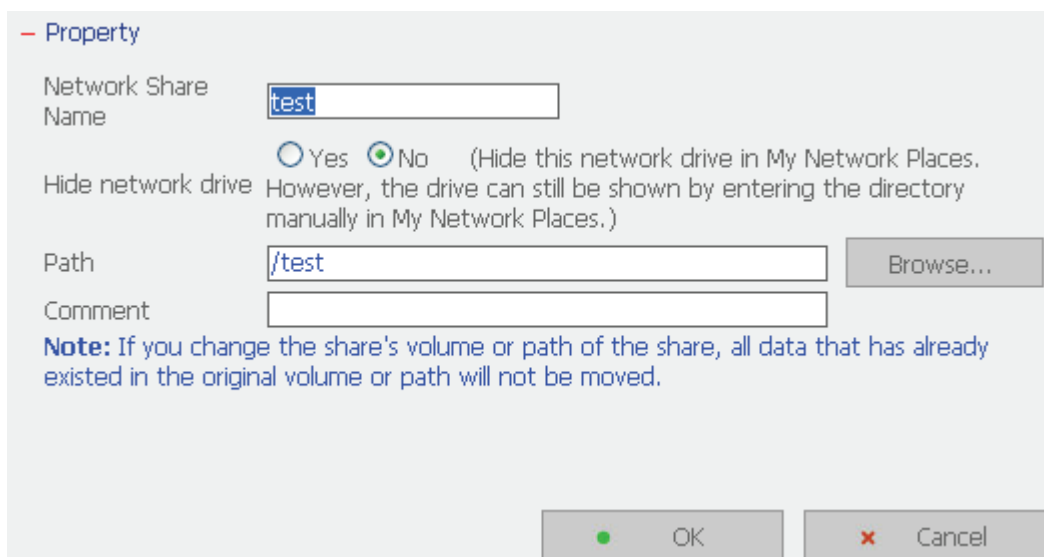
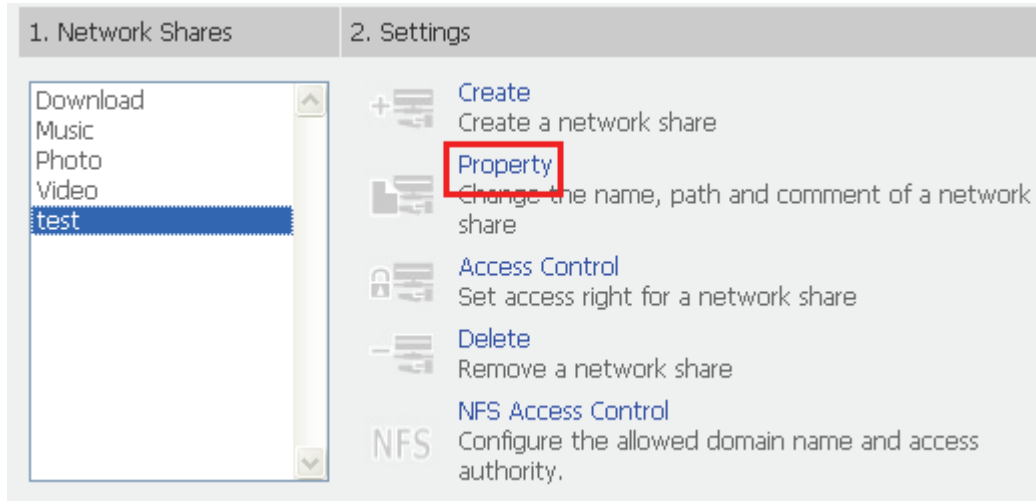
Path ☒ Specify path automatically  
☐ Enter path manually

Comment

☒ Grant full access right for everyone  
☐ Grant read access right for guest  
☒ Continue to set access right for this network share

## 9.6.2 Property

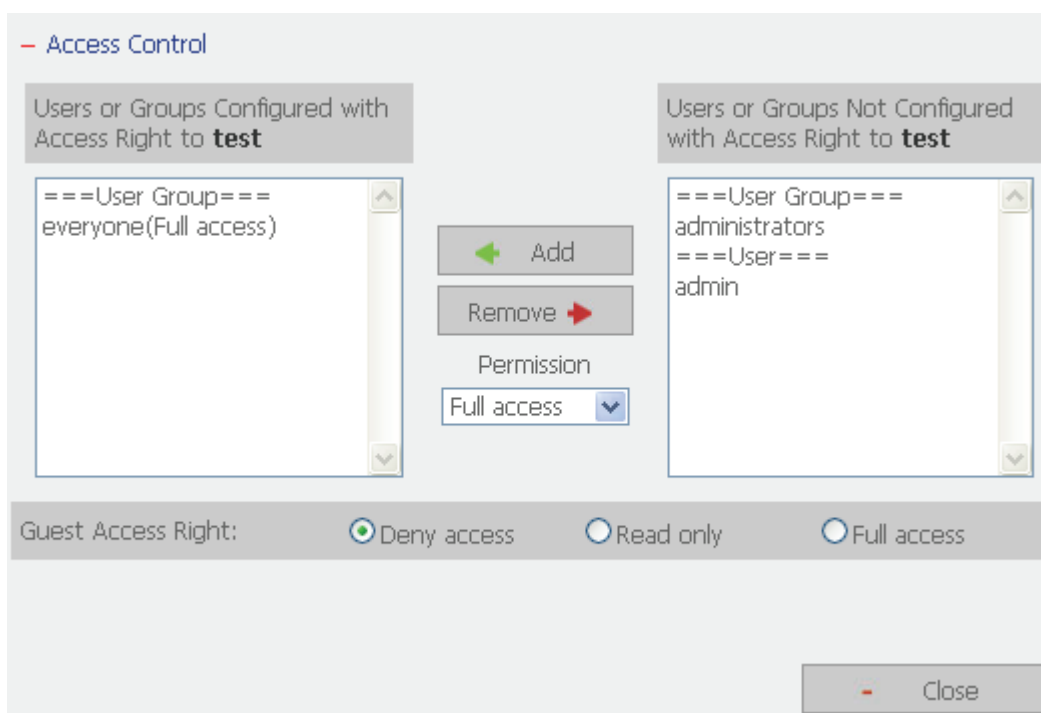
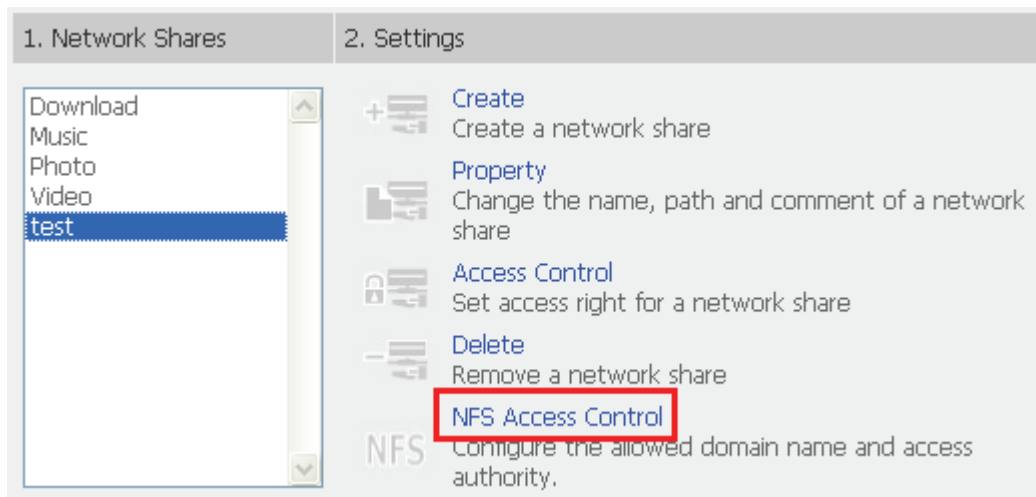
To edit the property of an existing network share, select a share and click “Property”. You can then edit the content of that share.



### 9.6.3 Access Control

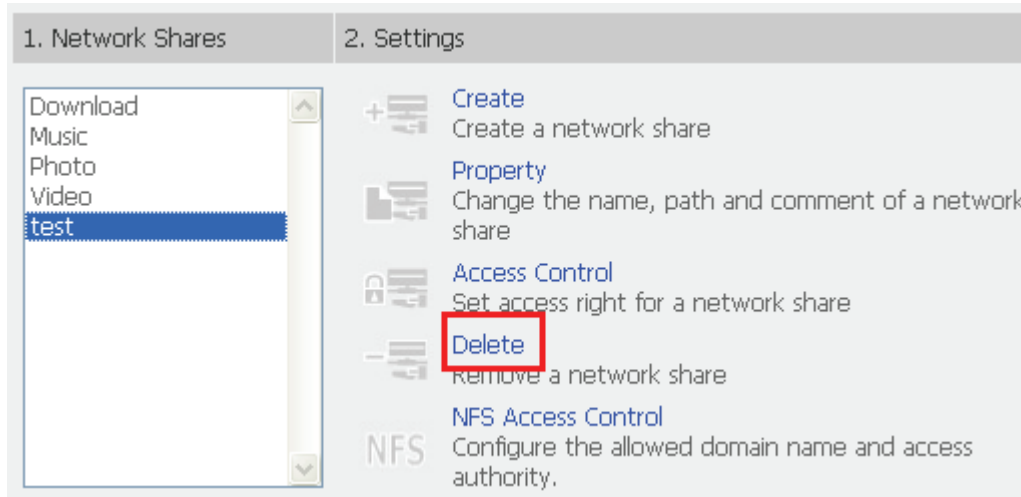
When a network share is created, you can assign different access rights to the users or user groups:

- ✓ Deny access  
The access to the network share will be denied.
- ✓ Read only  
The users can only read the files and folders on the network share.
- ✓ Full access  
The users can read, write, create, or delete the files and folders on the network share.



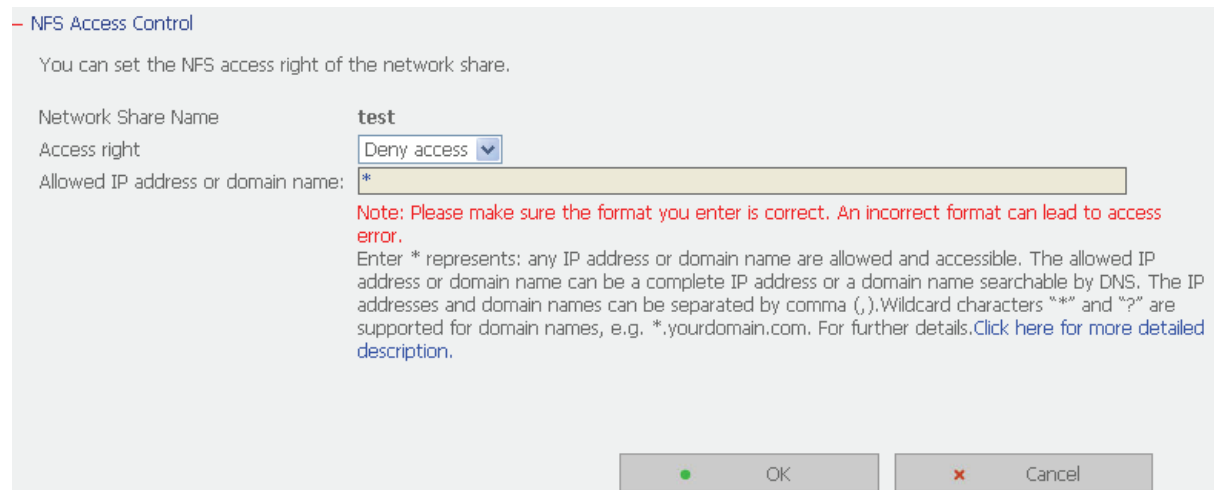
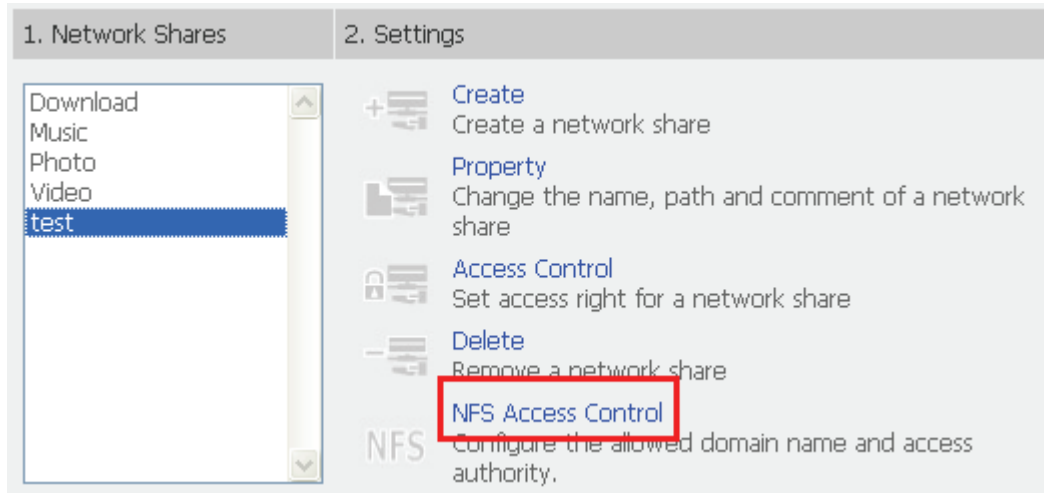
#### 9.6.4 Delete

Select a share and click “Delete”. Click “OK” to confirm.



## 9.6.5 NFS Access Control

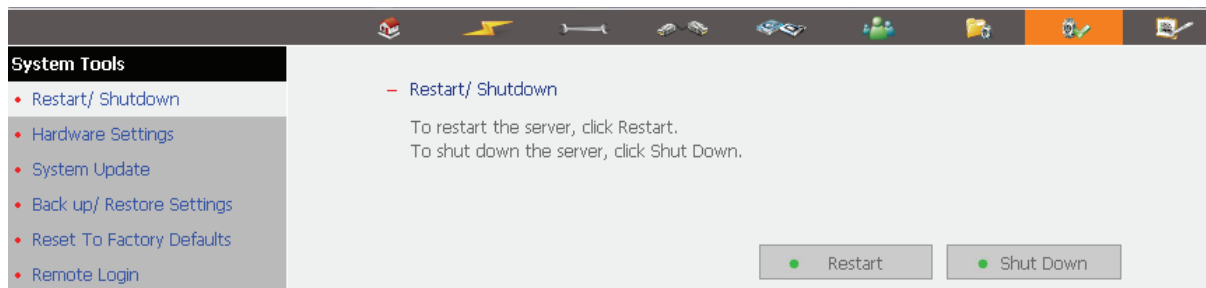
You can set the NFS access right of the network share. The access is denied by default.





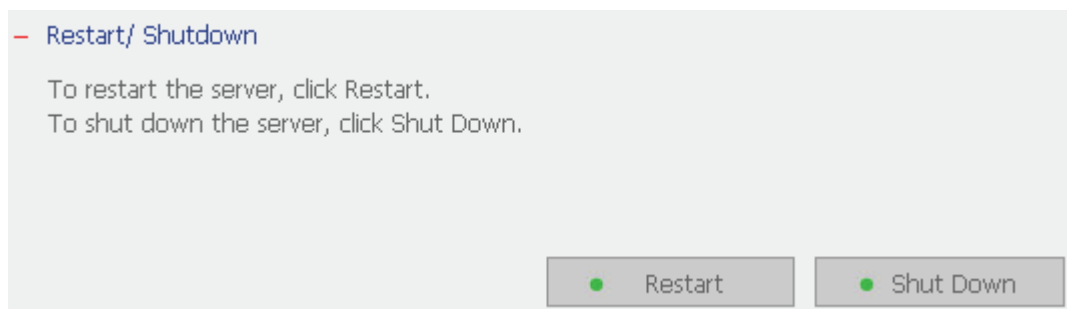
## 9.7 System Tools

The System Tools enable you to optimize the maintenance and management of NMP-1000P.



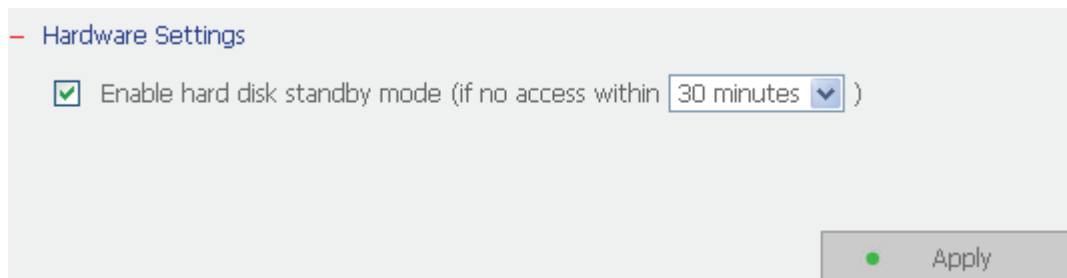
### 9.7.1 Restart/ Shutdown

Click “Restart” to restart the server or “Shutdown” to turn off the server.



### 9.7.2 Hardware Settings

You can enable hard disk standby mode on NMP-1000P. If there is no access to the hard drive within the specified period of time, the hard drive will enter standby mode.



### 9.7.3 System Update

**Warning:** Do NOT update the system firmware by the web-based interface if no internal hard drive is installed on NMP-1000P. Please save the unzipped firmware file to a USB storage device (minimum 256MB free space) and connect it to NMP-1000P. Then update the firmware by the remote control and the TV/ video display device.

If the system is running properly, you do not need to update the firmware. Before updating system firmware, please make sure the product model and firmware version are correct. Follow the steps below to update firmware:

1. Download the release notes of the new firmware from QNAP website <http://www.qnap.com>. Read the release notes carefully to make sure you need to upgrade the firmware.
2. Before upgrading the firmware, back up all the disk data to avoid any potential data loss during system update.
3. Click “Browse...” to select the correct firmware image for system update. Click “Update System” to update the firmware.

**Note:** The system update may take tens of seconds to several minutes depending on the network connection status. Please wait patiently. The system will inform you when the system update is completed.

## – System Update

**Note:** If the system is running properly, you do not need to update the firmware.

Current firmware version: 1.1.0 Build 0806P

Before updating system firmware, please make sure the product model and firmware version are correct, and the free space on the disk is larger than 256MB. Follow the steps below to update firmware:

Step 1: Download the release notes of the same version as the firmware from QNAP website <http://www.qnap.com/> Read the release notes carefully to make sure you need to update the firmware.

Step 2: Before updating system firmware, back up all disk data on the server to avoid any potential data loss during system update.

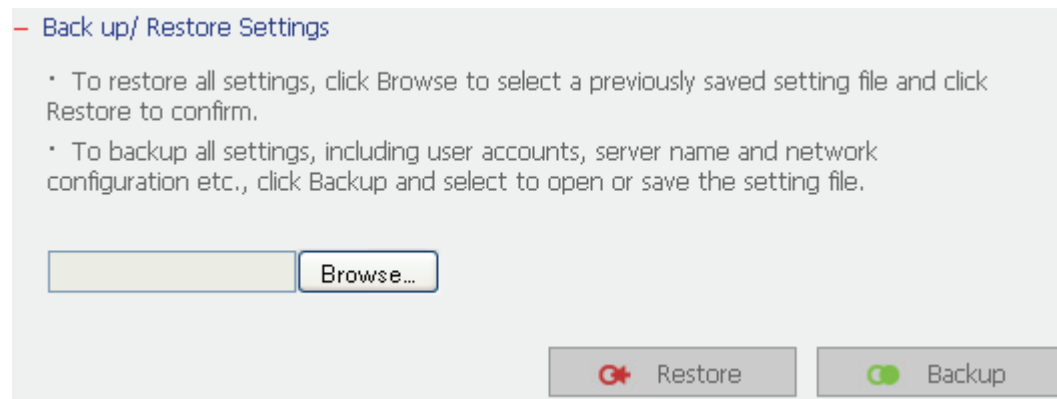
Step 3: Click the **[Browse...]** button to select the correct firmware image for system update. Click the **[Update System]** button to update the firmware.

**Note:** System update may take tens of seconds to several minutes to complete depending on the network connection status. Please wait patiently. The system will inform you when system update is completed.

#### 9.7.4 Back up/ Restore Settings

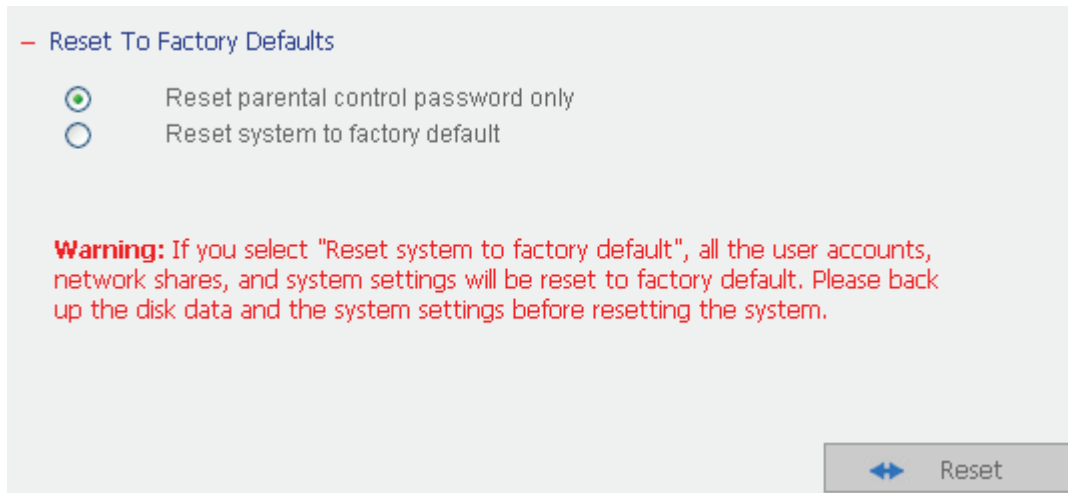
To back up all the settings, including the user accounts, server name and network configuration etc., click “Backup” and save the setting file.

To restore all the settings, click “Browse” to select a previously saved setting file and click “Restore”.



### 9.7.5 Reset to Factory Defaults

You can reset the parental control password or reset the system to factory default. The default parental control password is 111111. If you select “Reset system to factory default”, all the user accounts, network shares, and system settings will be reset to factory default. Please back up the disk data and the system settings before resetting the system.



— Reset To Factory Defaults

☒ Reset parental control password only

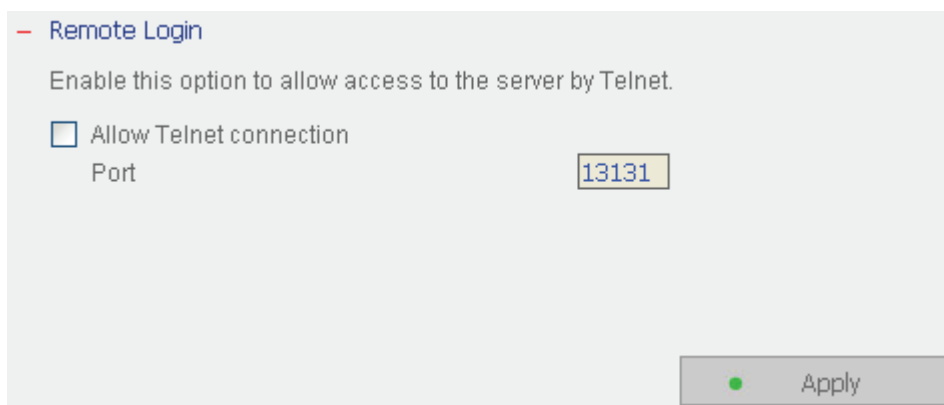
☐ Reset system to factory default

**Warning:** If you select "Reset system to factory default", all the user accounts, network shares, and system settings will be reset to factory default. Please back up the disk data and the system settings before resetting the system.

Reset

### 9.7.6 Remote Login (Telnet Connection)

Enable this option to allow access to the server by Telnet. Make sure you have opened the port on your router or firewall when using this function.



— Remote Login

Enable this option to allow access to the server by Telnet.

☐ Allow Telnet connection

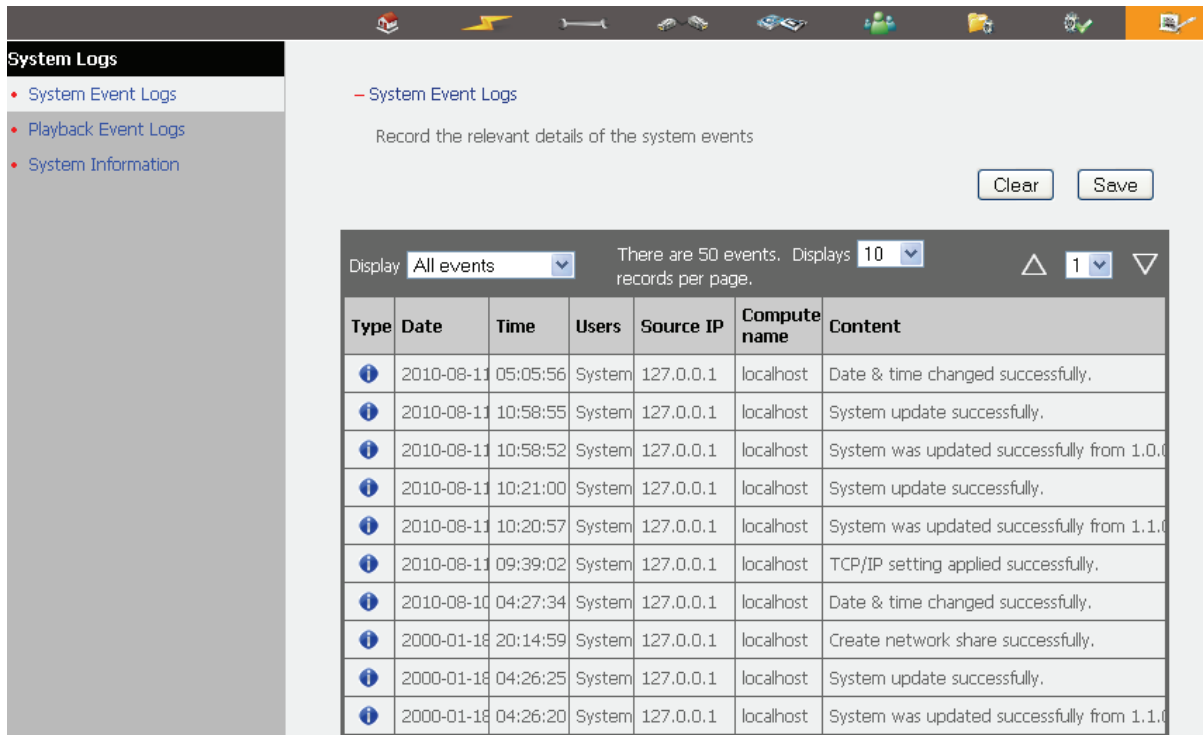
Port

Apply

## 9.8 System Logs

### 9.8.1 System Event Logs

NMP-1000P can store 10,000 recent event logs, including warning, error, and information messages. In case of system malfunction, you can refer to the event logs to analyze the errors.



The screenshot displays the 'System Logs' section of a web interface. On the left, a sidebar lists 'System Event Logs', 'Playback Event Logs', and 'System Information'. The main area is titled 'System Event Logs' and contains the instruction 'Record the relevant details of the system events'. Below this, there are 'Clear' and 'Save' buttons. A table displays a list of events, with a header row and 10 data rows. The table includes columns for Type, Date, Time, Users, Source IP, Compute name, and Content. Above the table, there is a filter dropdown set to 'All events', a status message 'There are 50 events. Displays 10 records per page.', and pagination controls showing '1' of 1 page.

Type	Date	Time	Users	Source IP	Compute name	Content
i	2010-08-11	05:05:56	System	127.0.0.1	localhost	Date & time changed successfully.
i	2010-08-11	10:58:55	System	127.0.0.1	localhost	System update successfully.
i	2010-08-11	10:58:52	System	127.0.0.1	localhost	System was updated successfully from 1.0.0
i	2010-08-11	10:21:00	System	127.0.0.1	localhost	System update successfully.
i	2010-08-11	10:20:57	System	127.0.0.1	localhost	System was updated successfully from 1.1.0
i	2010-08-11	09:39:02	System	127.0.0.1	localhost	TCP/IP setting applied successfully.
i	2010-08-10	04:27:34	System	127.0.0.1	localhost	Date & time changed successfully.
i	2000-01-18	20:14:59	System	127.0.0.1	localhost	Create network share successfully.
i	2000-01-18	04:26:25	System	127.0.0.1	localhost	System update successfully.
i	2000-01-18	04:26:20	System	127.0.0.1	localhost	System was updated successfully from 1.1.0

## 9.8.2 Playback Event Logs

NMP-1000P can store the details of up to 2,000 playback event logs on the installed internal hard disk drive. If you remove the hard disk drive, then the log will become unavailable.

– Playback Event Logs

Record the details of playback events

Clear Save

There are 168 events. Displays 10 records per page. ▲ 1 ▼

File name	Begin date	Begin time	End date	End time	Elapsed time
/share/HARD_DISK_A1/Video/2012/2012.avi	2000-01-1	03:16:25	2000-01-1	03:17:02	00:00:37
/share/HARD_DISK_A1/STATE_OF_PLAY_G51_3	2010-08-0	14:18:44	2010-08-0	14:18:53	00:00:09
/share/HARD_DISK_A1/Video/2012/2012.avi	2010-08-0	14:18:32	2010-08-0	14:18:40	00:00:08
/share/HARD_DISK_A1/STATE_OF_PLAY_G51_3	2010-08-0	14:17:06	2010-08-0	14:18:28	00:01:22
/share/HARD_DISK_A1/Video/2012/2012.avi	2010-08-0	14:15:38	2010-08-0	14:17:02	00:01:24
/share/HARD_DISK_A1/Video/60664110.mov	2010-08-0	14:01:33	2010-08-0	14:03:22	00:01:49
/share/HARD_DISK_A1/Video/60664110.mov	2010-08-0	13:58:58	2010-08-0	14:01:30	00:02:32
/share/HARD_DISK_A1/Video/60664110.mov	2010-08-0	13:56:22	2010-08-0	13:58:54	00:02:32
/share/HARD_DISK_A1/Video/60664110.mov	2010-08-0	13:53:46	2010-08-0	13:56:19	00:02:33
/share/HARD_DISK_A1/Video/60664110.mov	2010-08-0	13:51:11	2010-08-0	13:53:43	00:02:32

### 9.8.3 System Information

You can view the system information, e.g., CPU usage on this page.

- System Information	
CPU Usage	3.0 %
Packets Received	218831
Packets Sent	34549
Error Packets	175
System Up Time	0 Day(s) 4 Hour(s) 56 Minute(s)



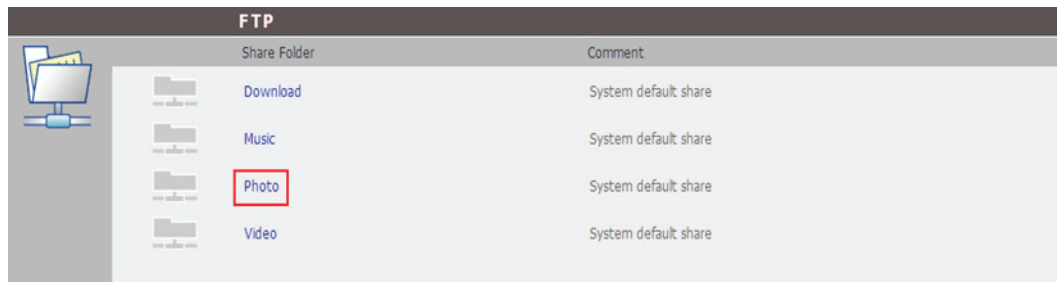
## 10. Web File Manager

To manage the data on NMP-1000P by the web-based Web File Manager, launch the web browser and go to NMP-1000P administration page. Click “Web File Manager” and enter the correct login name and password. You can login as “guest” to access the network shares open to guest access on NMP-1000P. The login password of guest is “guest”.

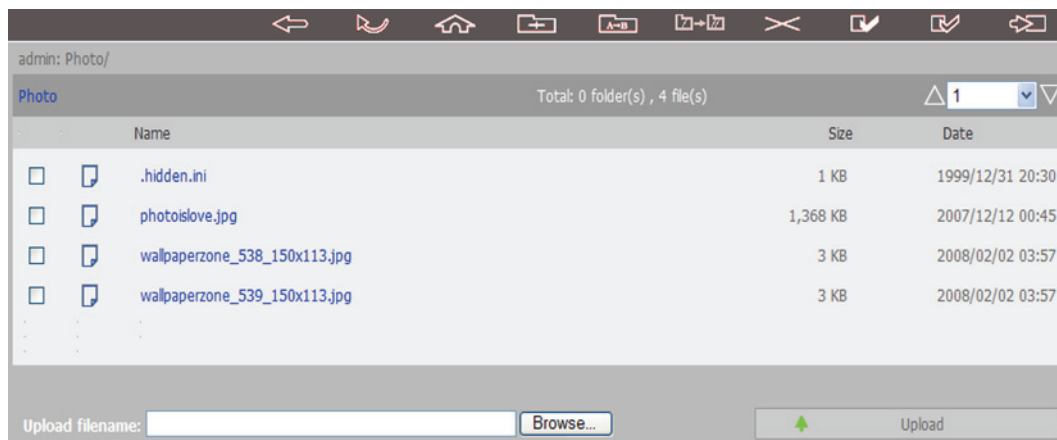
**Note:** Make sure a network share is created before using the Web File Manager.



Select a network share.




You can upload, rename, or delete files and folders in the network shares.



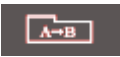
### View files online

Click a file displayed on the web page. The information of the file is shown. If your browser does not support the file format, a download window pops up automatically. Download the file and you can open it on your PC.

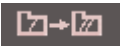
### Create folder

- Select a network share or folder in which you want to create a new folder.
- Click  (Create Folder) on the toolbar.
- Enter the name of the new folder and click "OK".


### Rename file or folder

- Select a file or folder to rename.
- Click  (Rename) on the toolbar.
- Enter the new file or folder name and click "OK".

### Move/copy files or folders

- i. Select the files or folders to move or copy.
- ii. On the tool bar, click  (Move/Copy).
- iii. You can select the destination folder to which the selected files or folders are moved or copied.

### Delete file or folder

- i. Select a file or folder to delete.
- ii. Click  (Delete) on the toolbar.
- iii. Confirm to delete the file or folder.

To delete all files and folders, click  (Select All) and  (Delete).


### Upload file

- i. Open the folder to upload file to.
- ii. Click “Browse” to select the file.
- iii. Click “Upload”.

### Download file

- i. Select a file to download.
- ii. Right click the file and select “Save Target As” to save the file.

### Logout

To exit Web File Manager, click  (Logout).

## 11. Other Software Utilities

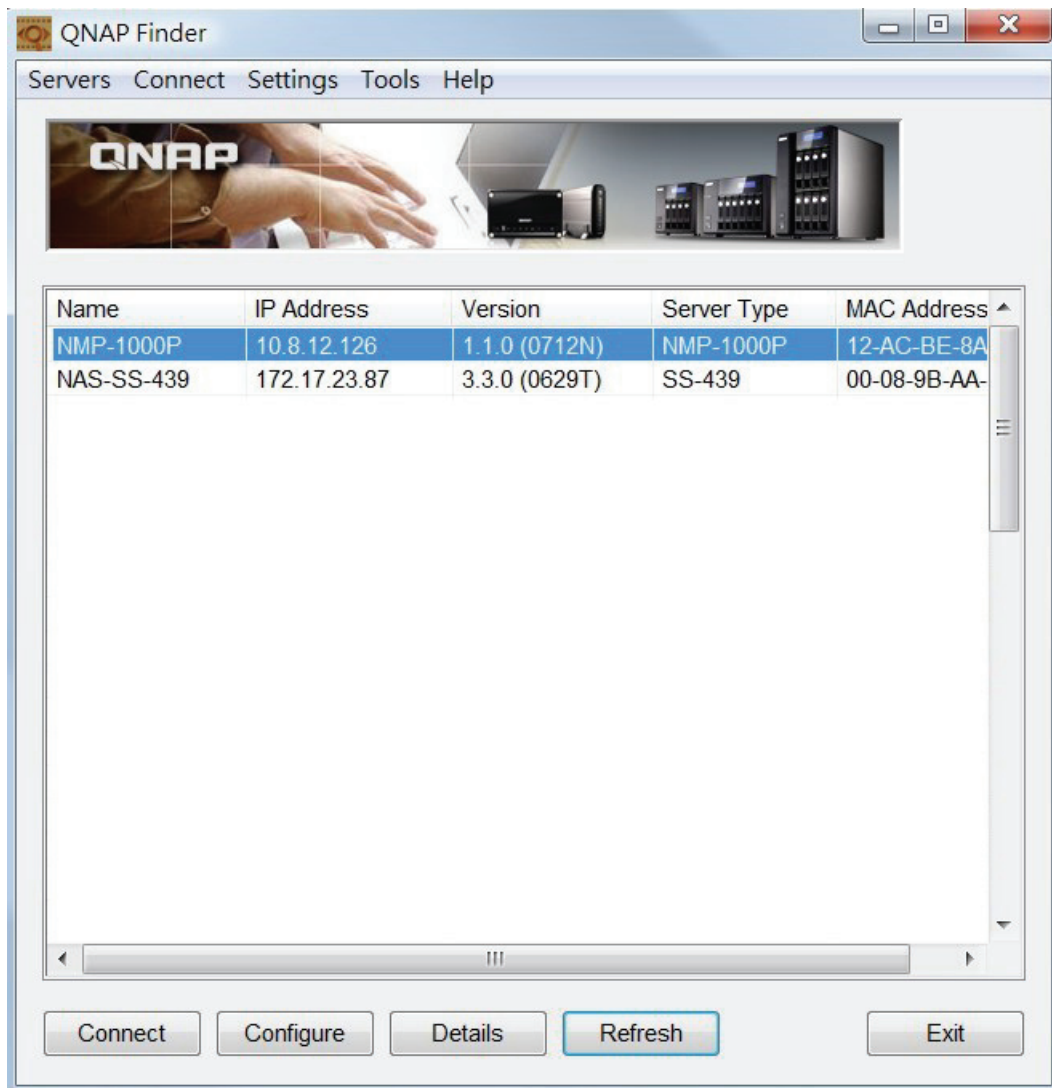
### 11.1 QNAP Finder

The QNAP Finder is a utility provided for you to search for all available NMP-1000P devices on the local network and map the shares as network drives.

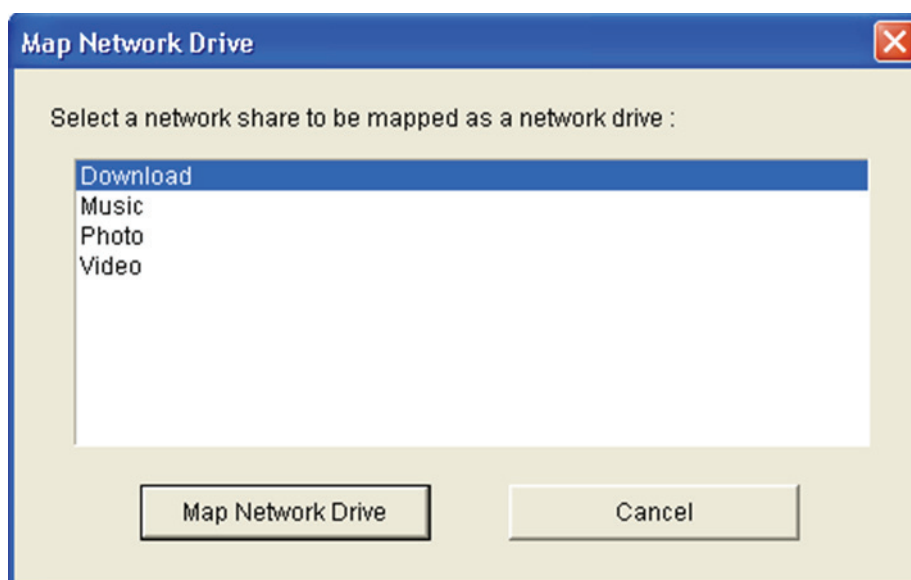
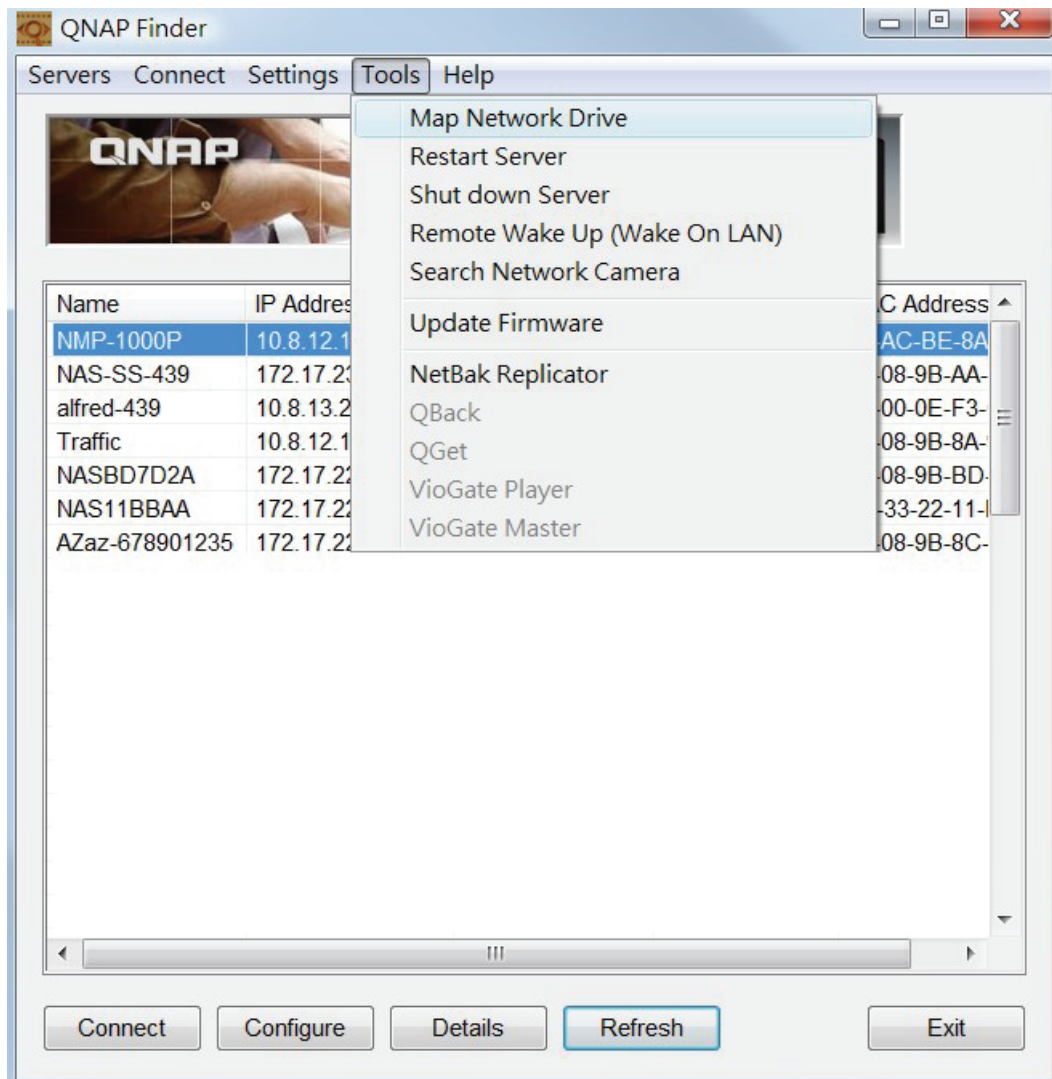
1. You can install the Finder from the CD-ROM.
2. Unblock the utility if it is blocked by the firewall.



3. Double click NMP-1000P name on the list to connect the device by your default web browser. Note that NMP-1000P must be connected to the network.



You can choose to map the shares of NMP-1000P as your network drives on Windows OS from the “Tools” menu.



## 11.2 NetBak Replicator

NetBak Replicator is a powerful program installed on user's system (Windows OS only) for data backup. You can back up any files or folders on local PC to specified share folder on NMP-1000P by LAN or WAN.

### Main Functions

#### 1. Backup

- **Instant Backup**  
You can select files and folders on local PC and back up files to specified network share folder on NMP-1000P immediately.
- **File Filter**  
You can select particular file types to be excluded from backup. The system will filter all files belonging to these file types when backing up data.
- **Schedule**  
You can specify a schedule for backing up data with this option, e.g. 12:00 every day or 05:00 every Saturday.
- **Monitor**  
When this option is enabled, the system will upload all files or folders to the server instantly for backup when the files or folders are modified.

#### 2. Restore

Select this option to restore backed up data to the original location of the file or to a new directory.

#### 3. Log

Enable this option to record events of NetBak Replicator, e.g. the time when NetBak Replicator starts and terminates.

## **Install NetBak Replicator**

1. You can install the NetBak Replicator from the CD-ROM.
2. Follow the steps to install NetBak Replicator.




3. Upon successful installation, a shortcut icon will be shown on the Desktop. Double click the icon to run NetBak Replicator.



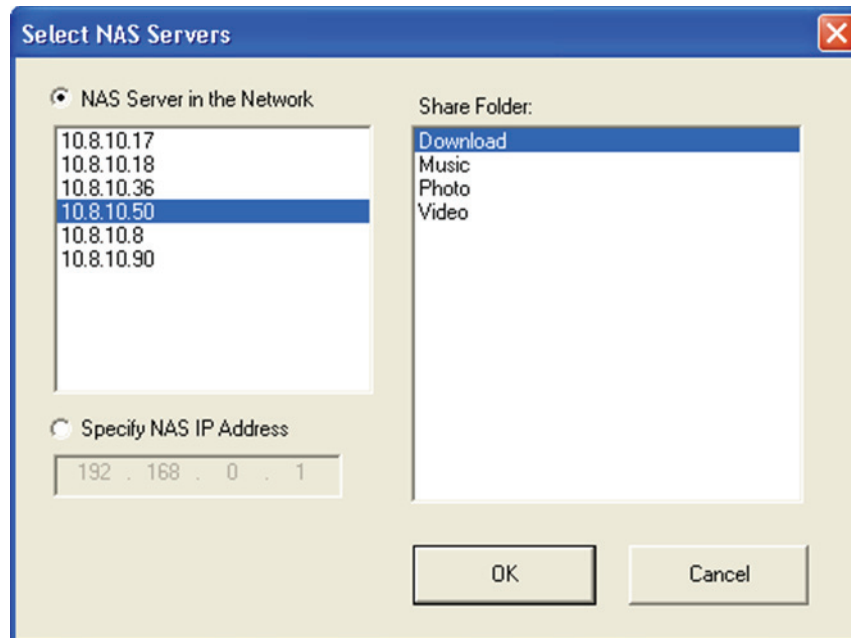
## Use NetBak Replicator

1. Before using NetBak Replicator, login NMP-1000P administration and go to “Network Share Management” to create a share folder for backup. Make sure the share folder is open for everyone access or you login the share folder with an authorized account or administrator by NetBak Replicator.

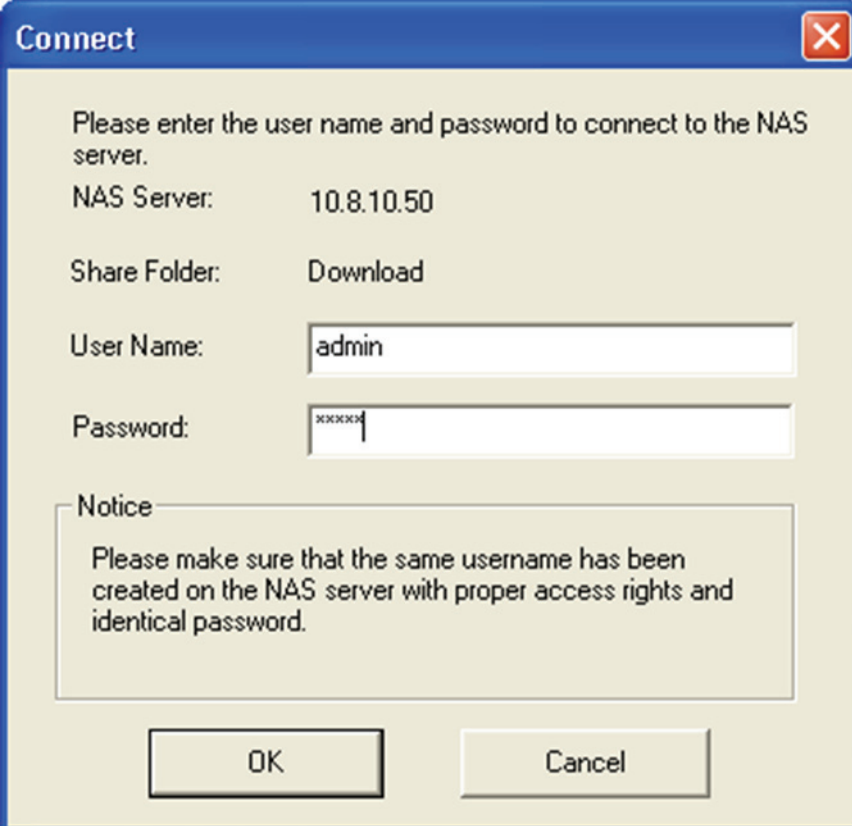
2. Run NetBak Replicator. Click . All NMP-1000P servers and their share folders within the network will be displayed. Note that you must turn off QNAP Finder when you are using NetBak Replicator in order to search for NMP-1000P successfully.



3. When the following window appears, all NMP-1000P on the LAN will appear on the left list. Select a server and a share folder on the right. NetBak Replicator also supports backup via WAN, you can enter the IP address of NMP-1000P for data backup directly and select a share folder. Then click "OK".



4. Enter the user name and password to login the server.



The image shows a Windows-style dialog box titled "Connect" with a red close button in the top right corner. The dialog has a light beige background. At the top, it says "Please enter the user name and password to connect to the NAS server." Below this, there are four labeled fields: "NAS Server:" with the value "10.8.10.50", "Share Folder:" with the value "Download", "User Name:" with a text box containing "admin", and "Password:" with a text box containing "xxxxxx". Below these fields is a "Notice" box with a thin border containing the text: "Please make sure that the same username has been created on the NAS server with proper access rights and identical password." At the bottom of the dialog are two buttons: "OK" and "Cancel".

Connect

Please enter the user name and password to connect to the NAS server.

NAS Server: 10.8.10.50

Share Folder: Download

User Name: admin

Password: xxxxxx








Notice

Please make sure that the same username has been created on the NAS server with proper access rights and identical password.

OK Cancel

5. You can start the backup procedure upon successful connection to NMP-1000P.

## Description of Buttons on NetBak Replicator

	Open Configuration: Open a previously saved NetBak Replicator configuration.
	Save Configuration: Save the settings on NetBak Replicator. The file will be named as *.rpr
	Select All: Select all items in the window.
	Clear All: Clear selection.
	Select My Document: Select all folders in My Document.
	Open NMP-1000P Backup Folder: This button allows users to find out where the files were backed up, and check or manage the archived files manually.
	Advanced Backup: Advanced Backup allows power user to back up a single folder with more advanced options.

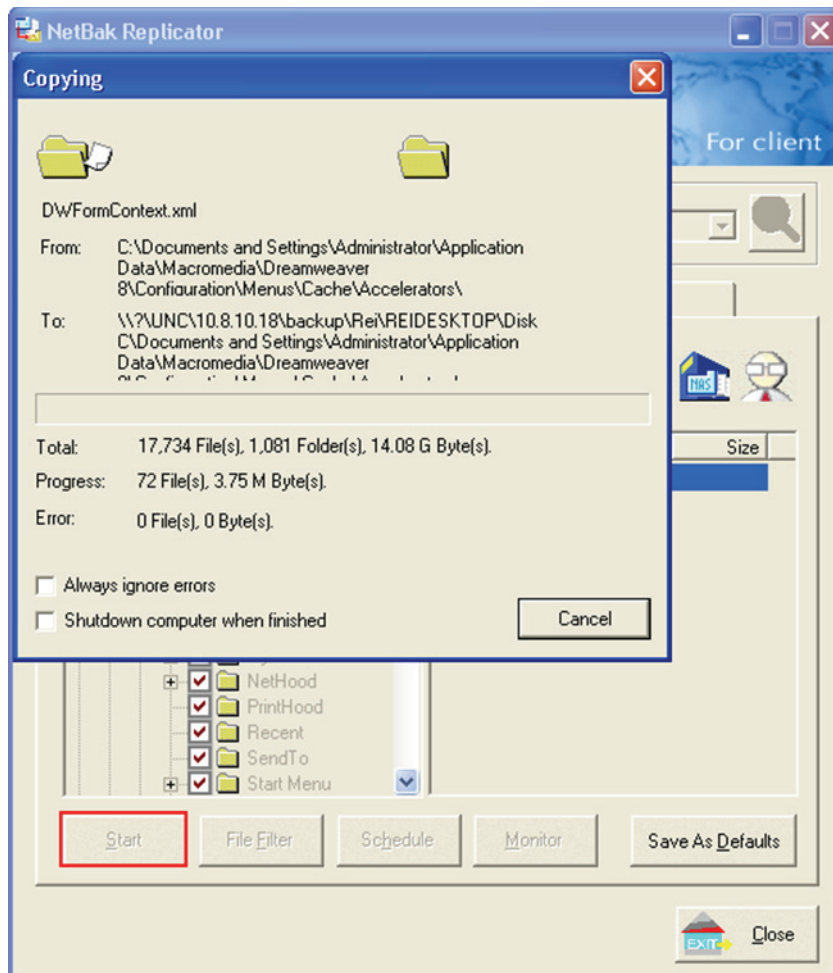
## Backup

Select the files and folders for backup.



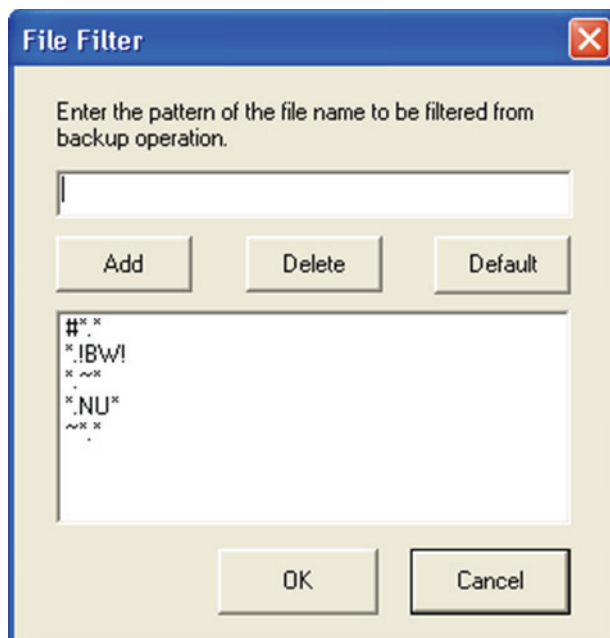
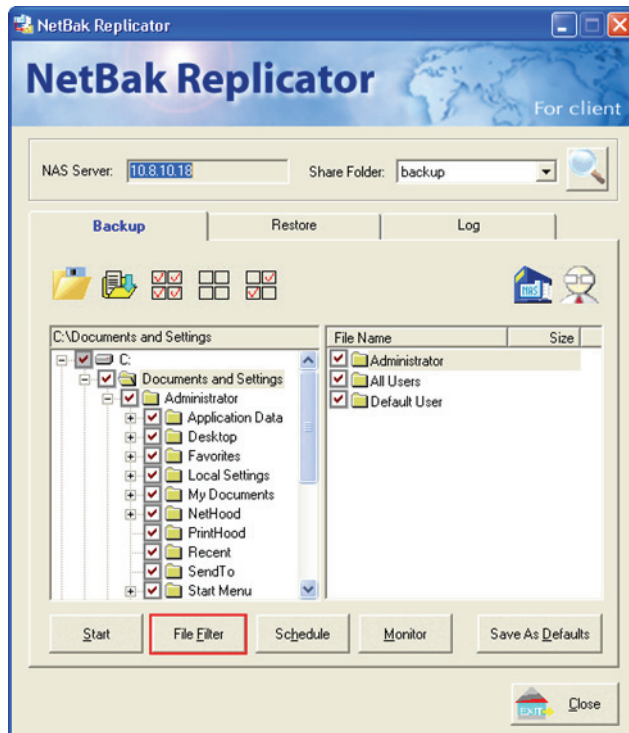
## Start

When you have selected the files for backup to NMP-1000P, click “Start”. The program will start to copy the selected files to the specified share folder on NMP-1000P.



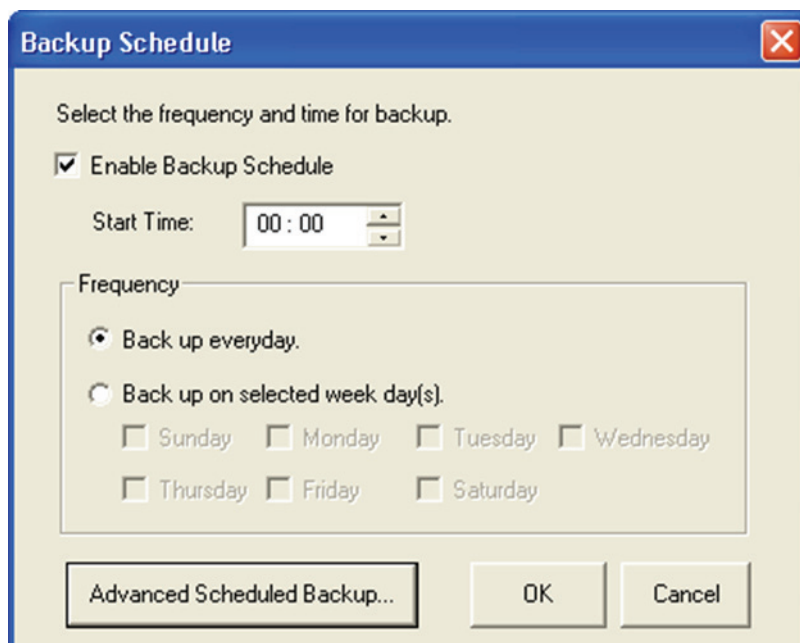
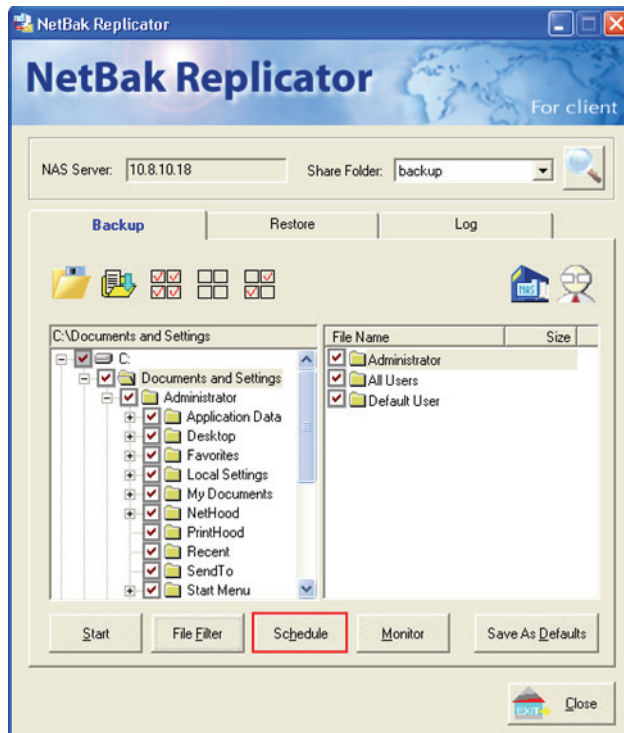
## File Filter

Click “File Filter” on NetBak Replicator main page to select file format to be skipped from backup. Then click “OK”.




## Schedule

Click “Schedule” on NetBak Replicator main page. Then check the box “Enable Backup Schedule” and select the frequency and time for backup. Click “OK” to confirm.





## Monitor

Select a folder for monitoring. When this option is enabled, the system will upload all files or folders to the server instantly for backup when the files or folders are modified. Other files will be gray and cannot be selected. Click “Monitor” again to cancel monitoring. An icon  will appear on task bar of Windows when monitoring is in process.





## Initialize Configuration

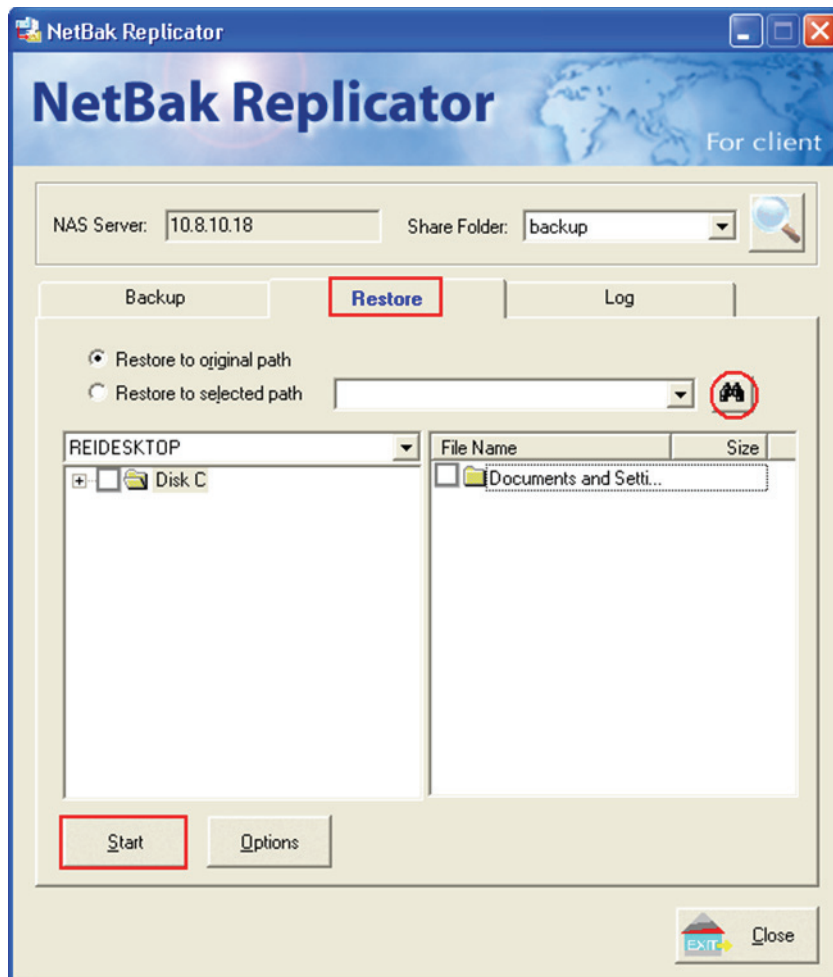
When using this function, NetBak Replicator will record all current settings of the user, including whether or not monitor function is enabled. When the user login again, this program will load the previous recorded settings for users to manage data backup.



## Restore

Please follow the steps below to restore files from NMP-1000P to your PC.

- Click  to select the NMP-1000P and the share folder (the restore source).
- Click the 'Restore' tab on NetBak Replicator.
- Select to restore the data to the original path or click  to specify the restore location manually.
- Select the files and folders to restore.
- Click 'Start'.

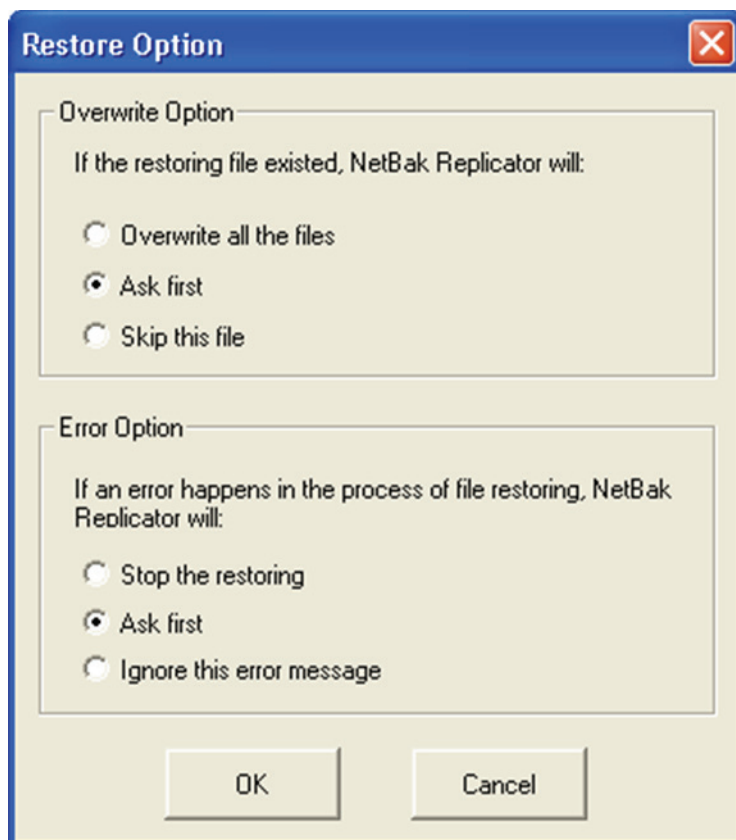


Option: Select recovery option and error option. If the restoring file existed, NetBak Replicator will:

- ✓ Overwrite all the files
- ✓ Ask first
- ✓ Skip this file

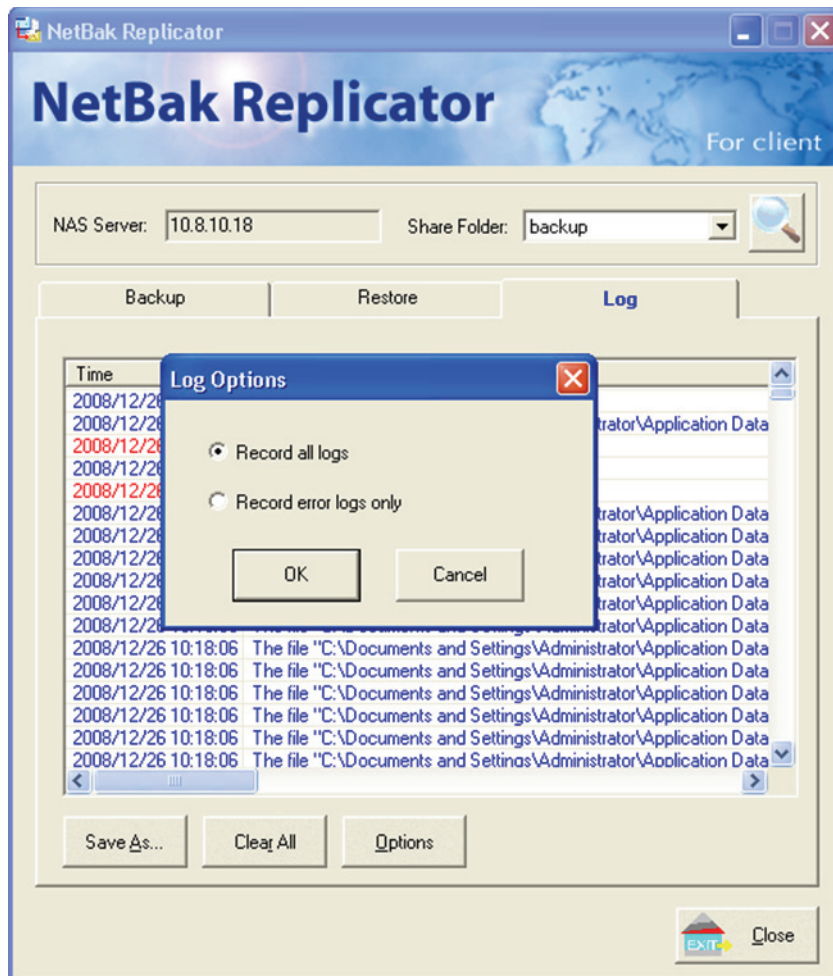
If an error happens in the process of file restoring, NetBak Replicator will:

- ✓ Stop the restoring
- ✓ Ask first
- ✓ Ignore this error message



## Log

- a. Save As...: To save all logs on NetBak Replicator, click this button. All logs will be saved as text file.
- b. Clear All: Click this button to clear all logs.
- c. Option: Select the type of logs to be recorded— “Record all logs” or “Record error logs only”.



## 12. System Maintenance

This section describes the system recovery and hardware reset procedure. Read carefully and adhere to the instructions strictly.

**Note:** QNAP disclaims any responsibility for product damage or malfunction or data loss or recovery due to misuse or improper handling of the product in any occasions for any reasons.

### 12.1 Recovery Procedure

If your NMP-1000P suffers from incomplete system update due to power failure during the update process and the device does not function properly anymore, follow the procedure below to recover the system.

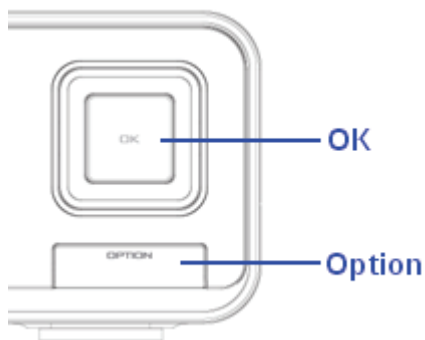
For standard firmware update procedure, see Section 5.2.6 or Section 9.7.3.

Two conditions must be met to perform the recovery procedure:

- (1) NMP-1000P can be recognized as a mass storage device when connected to the PC with external disk mode by the eSATA or USB interface.
- (2) The internal hard drive of NMP-1000P must have at least 256MB of free spaces for saving the firmware file for system update.

### System recovery procedure:

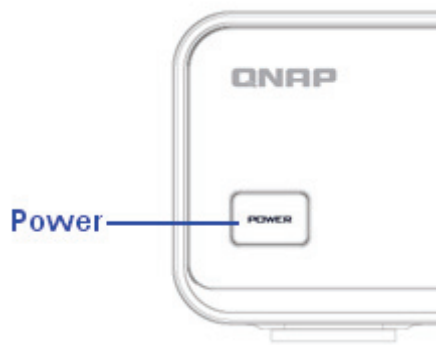
- 1) Download the latest NMP-1000P firmware from QNAP official website <http://www.qnap.com/>.
- 2) Connect the device to the PC by external disk mode using eSATA or USB interface; see Section 4.2.1 for more information.
- 3) The PC will recognize the device as an external storage device. Open the device storage with any kind of file browser.
- 4) Create a folder named “qnapfw” (quotes not required) in the root directory of the device where all other share folders reside.
- 5) Place the latest NMP-1000P firmware in the “qnapfw” folder.
- 6) Safely remove and disconnect the device from the PC.
- 7) Make sure you have the power supply connected to NMP-1000P and the device is powered off.
- 8) On the front panel of the device, press and hold the “Option” button and press the “Power” button, then release both buttons at once.



- 9) You will see the firmware file name scrolling on the VFD display. Press the “OK” button on the front panel to confirm recovery mode upgrade procedure.
- 10) The recovery process will start and the device will automatically reboot upon completion.

## 12.2 Hardware Reset

If your NMP-1000P does not respond for any reasons, you can try to reset the hardware. To do this, press and hold the “Power” button on the front panel for more than 6 seconds. The device will reset itself and power off. You can then power on the device and have the player working properly again. If the device fails to work after the hardware reset, please contact your distributor/ dealer or our technical support.





## Technical Support

QNAP provides dedicated online support and customer service via instant messenger.

You can contact us by the following means:

Online Support: <http://www.qnap.com/>

MSN: [q.support@hotmail.com](mailto:q.support@hotmail.com)

Skype: qnapskype

Forum: <http://forum.qnap.com/>

### **Technical Support in the USA and Canada:**

Email: [q\\_supportus@qnap.com](mailto:q_supportus@qnap.com)

TEL: 909-595-2819 ext. 185

Address: 166 University Parkway, Pomona, CA 91768-4300

Service Hours: 08:00–17:00 (GMT- 08:00 Pacific Time, Monday to Friday)

# GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright © 2007 Free Software Foundation, Inc. <<http://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

## Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

“This License” refers to version 3 of the GNU General Public License.

“Copyright” also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

“The Program” refers to any copyrightable work licensed under this License. Each licensee is addressed as “you”. “Licensees” and “recipients” may be individuals or organizations.

To “modify” a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a “modified version” of the earlier work or a work “based on” the earlier work.

A “covered work” means either the unmodified Program or a work based on the Program.

To “propagate” a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To “convey” a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays “Appropriate Legal Notices” to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

#### 1. Source Code.

The “source code” for a work means the preferred form of the work for making modifications to it. “Object code” means any non-source form of a work.

A “Standard Interface” means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The “System Libraries” of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A “Major Component”, in this context, means a major essential component (kernel, window system, and so on) of

the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The “Corresponding Source” for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

## 2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

### 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

### 4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

### 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how

they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an “aggregate” if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

## 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you

or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source.

Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A “User Product” is either (1) a “consumer product”, which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, “normally used” refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

“Installation Information” for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).



The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

## 7. Additional Terms.

“Additional permissions” are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

- d) Limiting the use for publicity purposes of names of licensors or authors of the material;  
or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered “further restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

## 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that

copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

#### 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

#### 10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An “entity transaction” is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

#### 11. Patents.

A “contributor” is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's “contributor version”.

A contributor's “essential patent claims” are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, “control” includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a “patent license” is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To “grant” such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. “Knowingly relying” means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is “discriminatory” if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

#### 12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

#### 13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

#### 14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License “or any later version” applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

#### 15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM “AS IS” WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

#### 16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF

SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS